

# TOSHIBA

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## ZL2\* Digital Series

### >SUPPORT



PLEASE VISIT:  
[WWW.TOSHIBA.CO.UK/TV-DVD-SUPPORT](http://WWW.TOSHIBA.CO.UK/TV-DVD-SUPPORT)



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# REGZA

Register your TV online at  
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# Contents

## INSTALLING YOUR TV

Safety Precautions .....	5
Installation and important information .....	6
The remote control .....	8
Inserting batteries and effective range .....	9

## CONNECTING YOUR TV

Connecting external equipment .....	10
Connecting an HDMI® or DVI device to the HDMI input .....	11
To connect an HDMI device .....	11
To connect a DVI device .....	11
HDMI's ARC (Audio Return Channel) feature .....	11
REGZA-LINK connection .....	12
Connecting a computer .....	13
To connect a PC to the RGB/PC terminal .....	13
To connect a PC to the HDMI terminal .....	13
Connecting a home network .....	14
To connect the TV to a home network - Wired .....	14
To connect the TV to a home network with an internet connection - Wireless .....	14
Controls and input connections .....	15
Switching on .....	15
Using the menu system .....	15
Using the TV controls and connections .....	15
MENU structure .....	16

## SETTING UP YOUR TV

Startup Application .....	17
Quick Setup .....	17
Ant/Cable/Satellite (if available) .....	18
Satellite Settings .....	19
Auto Tuning .....	21
ATV Manual Tuning .....	22
Tuning .....	22
Skip .....	23
Sorting positions .....	23
DTV Manual Tuning .....	24
Manual Tuning .....	24
Manual Tuning for DVB-C .....	24
Manual Tuning for DVB-S .....	24
DTV Settings .....	25
Channels (Antenna/Cable) .....	25
Channels (Satellite) .....	26
Standby Channel Update .....	26
DVB Character Set .....	26
Dynamic Scan .....	26
Location setting .....	27
<b>Analogue</b> switch-off .....	27

## CONTROLS AND FEATURES

General controls .....	28
Quick Menu .....	28
Selecting channels .....	28
The Time Display – <b>analogue</b> only .....	28
Stereo and Bilingual transmissions .....	28
Using 3D functions .....	29
About the Glasses Free 3D TV .....	29
Basic operation .....	29
When a 3D image does not look right .....	29
Viewing 3D images .....	30
Switching display mode or selecting 3D format .....	30
Setting the auto start mode .....	32
Setting the 3D Viewing Mode .....	32
Setting the 3D Scene .....	32
Setting the 3D PIN code .....	33
Setting 3D Start Message .....	33
Setting 3D Lock .....	33
Setting 3D Timer Lock .....	33
Setting Enable 3D Timer .....	33
Displaying 3D Important Info .....	34
Adjusting 3D Depth .....	34
Switching left and right images .....	34
Sound controls .....	35
Volume controls and sound mute .....	35
Dual .....	35
Balance .....	35
Sound Navi .....	35
Surround Settings .....	35
Dolby Volume® .....	35
Dynamic Range Control .....	36
Audio Level Offset .....	36
Headphone Settings .....	36
Audio Description .....	36
Widescreen viewing .....	37
Picture controls .....	39
Picture Mode .....	39
Picture preferences .....	39
Reset .....	39
ColourMaster .....	39
Base Colour Adjustment .....	40
Colour Temperature .....	40
Auto Brightness Sensor Settings .....	40
LED Backlight Control .....	40
Black/White Level .....	41
Static Gamma .....	41
MPEG NR – Noise Reduction .....	41
DNR – Digital Noise Reduction .....	41
Resolution+ .....	41
Slant Line Smoother .....	41
Active Vision M800 .....	41
Motion Detection Range .....	42
3D Judder Cancellation .....	42
Resetting the advanced picture settings .....	42

Expert Picture Settings .....	42	The timers .....	77
Control Visualization .....	44	Programme Timers – <b>digital</b> only .....	77
Automatic Format (Widescreen) .....	44	On Timer .....	78
4:3 Stretch .....	44	Sleep Timer .....	78
Blue Screen .....	44	Energy Saving Settings .....	79
Picture Position .....	45	Automatic Power Down .....	79
Picture still .....	45	No Signal Power Down .....	79
HDMI Information Display .....	45	Digital on-screen information and Programme Guide .....	79
Wireless LAN Information .....	46	Information .....	79
Setting up the Network .....	47	Guide .....	80
Wireless Setup .....	47	Genre selection/searching .....	81
Advanced Network Setup .....	49	<b>Digital</b> settings – parental control .....	81
DNS Setup .....	50	Parental PIN Setup .....	81
Network Connection Test .....	51	Parental Setup .....	82
Using the software keyboard .....	51	Network Lock .....	82
Network Device Setup .....	52	<b>Digital</b> settings – Channel Options .....	82
External Control Setup .....	52	Selecting favourite channels .....	82
Media Renderer Setup .....	52	Favourite Channel Lists .....	82
Power Control Mode .....	53	Skip channels .....	83
Device Name Setup .....	53	Locking channels .....	83
Using the USB HDD Function .....	53	<b>Digital</b> settings – other settings .....	83
Setting up the USB HDD .....	54	Subtitles .....	83
To record DTV programmes (One Touch Recording) .....	55	Audio languages .....	83
To schedule programmed recording .....	55	Common Interface .....	84
To check, edit or delete scheduling information .....	58	Software Upgrade and Licences .....	84
To view a recorded programme .....	58	Auto Upgrade .....	84
Operations from the Library screen .....	59	Searching for New Software .....	84
Other useful functions (Time Shift Recording) .....	60	Network Upgrade .....	85
Recording Setup .....	60	Software Licences .....	85
To disconnect a USB HDD .....	61	System Information and Reset TV .....	85
To confirm/delete Recording Information .....	62	System Information .....	85
Scheduling priority .....	62	Reset TV .....	85
Using Toshiba Places .....	63	PC Settings .....	86
Using BBC iPlayer .....	63	Horizontal and Vertical Position .....	86
Using YouTube™ .....	64	Clock Phase .....	86
Using the Function Menu .....	64	Sampling Clock .....	86
Using Hybrid TV Standard (if available) .....	66	Reset .....	86
Using the Media Player .....	67	Input selection and AV connections .....	87
Basic operation .....	67	Input selection .....	87
Viewing photo files (on a DLNA CERTIFIED™ Server or USB device) .....	69	External input skip .....	87
Viewing movie files (on a DLNA CERTIFIED™ Server or USB device) .....	71	Labeling video input sources .....	88
Playing music files (on a DLNA CERTIFIED™ Server or USB device) .....	73	PC Audio .....	88
Using the Photo Frame feature .....	75	Side Shared Audio .....	88
To open Photo Frame .....	75	HDMI 3 Audio .....	88
Setting the features .....	75	HDMI Settings .....	89
Other features .....	77	Digital Audio Output .....	89
Panel Lock .....	77	Using Personal TV Mode .....	90

Using REGZA-LINK .....	91
Enable REGZA-LINK .....	91
TV Auto Power .....	91
Auto Standby .....	91
Amplifier Control .....	91
Initial Speaker Setting .....	91
Position Key Pass Through .....	91
REGZA-LINK input source selection .....	92
REGZA-LINK Device Control .....	92
REGZA-LINK one touch play .....	92
REGZA-LINK system standby .....	92
REGZA-LINK system audio control .....	93
Toshiba PC compatible with REGZA-LINK .....	93
Using MHL TV function .....	93
Connecting an MHL-compatible Device .....	93
Operating an MHL-compatible Device .....	93
MHL Setup .....	93

## TEXT SERVICES

Text services .....	94
Selecting modes .....	94
Text information .....	94
Navigating pages using Auto .....	94
Navigating pages using LIST .....	94
Control buttons .....	95

## PROBLEM SOLVING

Questions and Answers .....	96
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## INFORMATION

License Information .....	99
Information .....	101
Specifications and accessories .....	106

## Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured. Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products, and some points may not apply to the goods you have just purchased.

### Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

### Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

### Mains Supply

The mains supply required for this equipment is 220-240v AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead. Use only the supplied lead.

DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in the plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

IF IN DOUBT, PLEASE CONSULT A COMPETENT ELECTRICIAN.

### Do

**DO** read the operating instructions before you attempt to use the equipment.

**DO** ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

**DO** consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

**WARNING:** To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See page 6.

**DO** be careful with glass panels or doors on equipment.

**DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.**

**THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.**

### Do not

**DO NOT** obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

**DO NOT** allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

**DO NOT** place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.



**WARNING:** To prevent the spread of fire, keep candles or other open flames away from this product at all times.

**DO NOT** use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand, bracket or legs with the fixings provided according to the instructions.

**DO NOT** leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, and make sure your family knows how to do this. Special arrangements may need to be made for people with disabilities.

**DO NOT** continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

**WARNING:** Excessive sound pressure from earphones or headphones can cause hearing loss.

**ABOVE ALL - NEVER let anyone, especially children, push or hit the screen and cabinet back, or push anything into holes, slots or any other openings in the case. These actions will damage screen or internal parts.**

**NEVER connect the supplied COMPONENT Adaptor cable, AV-SCART Adaptor cable or AV Adaptor cable to a wall outlet. These cables are ONLY for insertion into the socket provided for the purpose on the rear/side of the TV.**

**NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.**

# Installation and important information

## Where to install

Locate the television away from direct sunlight and strong lights. Soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

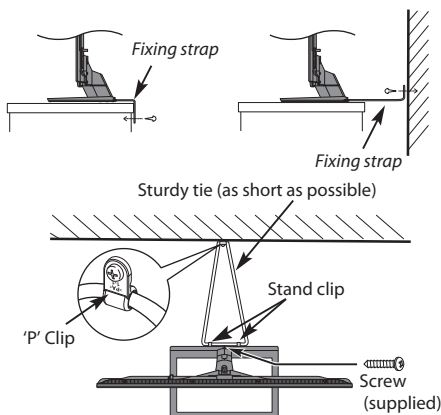
**Place the TV on a stable, level surface that can support the weight of the TV. In order to prevent injury and maintain stability of this apparatus, secure the TV to the level surface using the strap if fitted, or to a wall using a sturdy tie to the P clips provided. Otherwise secure the TV on the level surface using the supplied mounting screw.**

The LCD display panels are manufactured using an extremely high level of precision technology; however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen. Also, please be certain that small items cannot be inserted into slots or openings in the case.



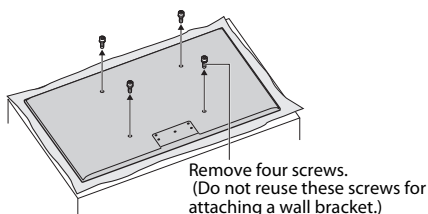
Avoid using chemicals (such as air refreshers, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combination effects of chemical agents and mechanical stress (such as weight of TV). Failure to follow these instructions could result in serious injury and/or permanent damage to TV and TV pedestal.



## When using a Wall Bracket

Please use a wall bracket appropriate for the size and weight of the LCD TV.

- Two people are required for installation.
  - **Never use the four screws attached to the TV.**
- 1 Unplug and remove any cables and/or other component connectors from the rear of the TV.
  - 2 Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket.
  - 3 Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
  - 4 Always use the screws supplied or recommended by the wall mount manufacturer.

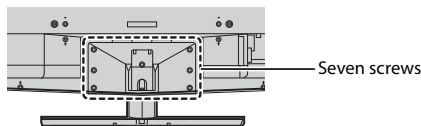


## Removing the Pedestal Stand:

- 1 Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

**NOTE:** Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

- 2 Remove the seven screws.



- 3 Once you have removed all seven screws holding the pedestal stand in place, remove the pedestal stand from the TV by sliding the pedestal stand away from the TV.

## Please take note

The digital reception function of this television is only effective in the countries listed in the “Country” section of the “Setup/System Setup” menu. Depending on country/area, some of this television’s functions may not be available. Reception of future additional or modified services can not be guaranteed with this television.

If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television screen for any length of time, they could become conspicuous. It is always advisable to reduce both the brightness and contrast settings.

Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines. This is not a defect of the LCD TV and is not covered under the manufacturer’s warranty. Regular use of other size modes (e.g.: Super Live) will prevent permanent retention.

## EXCLUSION CLAUSE

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- i) Fire;
- ii) Earthquake;
- iii) Accidental damage;
- iv) Intentional misuse of the product;
- v) Use of the product in improper conditions;
- vi) Loss and/or damage caused to the product whilst in the possession of a third party;
- vii) Any damage or loss caused as a result of the owner’s failure and/or neglect to follow the instructions set out in the owner’s manual;
- viii) Any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following: loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

## When Using a USB HDD (not supplied)

- **The recording function has been designed for private use and entertainment in your home environment. Please note that any commercial use of the recording function could lead to copyright infringement of authors’ rights. Toshiba asks you to respect the intellectual property rights of third parties.**
- **Before recording to a device connected to the TV, make a test recording and check the recording performance.**
- **Programmes that are prohibited from copying due to copyright protection cannot be recorded.**
- **Toshiba shall not be liable for compensation or incidental damages of any kind whatsoever resulting from content that was not properly recorded on the recording device or that was modified or lost.**
- **Toshiba shall not be liable for damages of any kind whatsoever (breakdown of the recording device, modification or loss of the recorded content, etc.) resulting from malfunction, operating failure or incorrect operation due to combining with another connected device.**
- **If you connect and register a USB HDD that has been used with a PC or another TV, all the data and recorded programmes stored on the disk will be deleted.**
- **To use USB HDD that has been used with this TV on a PC, the hard disk must first be formatted with the PC. At this time, all the data stored using the TV will be deleted.**
- **Do not turn off the power supply to the USB HDD or disconnect the connecting cable while the USB HDD is operating.**  
Doing so may result in loss of the recorded data or malfunction of the USB HDD.
- **A bus-powered USB HDD is not supported.**
- **If you connect USB bus-powered device to the another USB port, it may interfere with recording on the USB HDD.**
- **The recording function is not available in all countries.**
- **Please note that recording on the USB HDD is no longer playable after the TV’s main-board is exchanged during service.**

## When using the 3D feature

- **Toshiba's new Glasses Free 3D TV allows you to view 2D and 3D content as 3 dimensional scenography without the need for corresponding 3D glasses.**
- **Glasses Free 3D images may differ from traditional 3D televisions. Moreover 3D images may also differ by individual and content.**
- **It is not available to view the 3D image of this TV using a 3D glasses.**
- **The 3D function has been designed for private use and entertainment in your home environment. Please note that any commercial use of the 3D function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.**
- **Anyone who has had a seizure, loss of awareness, or other symptoms linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.**
- **If you are ill or feel ill, you should refrain from viewing 3D images, and consult your health care provider as may be appropriate.**
- **If you experience any of the following symptoms when viewing 3D images, stop viewing and contact your health care provider:**  
Convulsions, eye or muscle twitching, loss of awareness, altered vision, involuntary movements, disorientation, eye strain, nausea/vomiting, dizziness, headaches.
- **If you have worn a polarization glasses or polarization sunglasses, a 3-D image may be dark and may not be seen.**
- **If you feel eye fatigue or other discomfort from viewing 3D images, discontinue use until the condition is eliminated.**
- **Viewing in 3D may cause dizziness and/or disorientation for some viewers.**

Therefore, to avoid injury do not place your TV near open stairwells, balconies, or wires.

Also do not sit near objects that could be broken if accidentally hit.

- **When watching 3D images, do not lie down.**

If you watch while lying down, the 3D effect is lost and it may cause eye strain.

- **If you have prescription eye glasses or contact lenses, watching 3D images without such eyewear may cause eye strain.**

Watching 3D images with a pre-existing eye condition can aggravate such condition and/or cause eye strain and/or headaches.

- **If 3D images often appear in double or if you cannot see the images in 3D, stop viewing.**

Continuous viewing may cause eye strain.

- **Due to the possible impact on vision development, viewers of 3D images should be age 6 or above.**

Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.

- **Watching TV while sitting too close to the screen for an extended period of time may cause eye strain.**

Recommended viewing position is about 2.2 meters away from the screen.

- **3D effect and image quality may vary depending upon content quality and display device capability/ functionality/settings.**

- **Use a high-speed and high-quality HDMI cable when you connect a device such as 3D compatible BD player or PC to the TV. When you use a standard HDMI cable, 3D images may not be shown.**

### If the 3D PIN number has been forgotten:

Use the Master PIN code of 1276, and then change to a number of your choice. Select **3D PIN Setup** from the **Preferences / 3D Setup** menu to enter PIN.

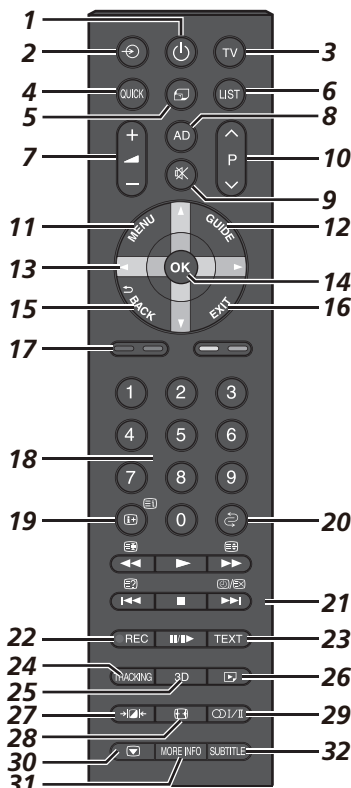
## When using MHL (Mobile High-definition Link)

- Interoperability with MHL devices of other manufacturers is not guaranteed.
- Toshiba does not provide any guarantee, therefore, against operational failure such as that described below when an MHL source is connected to the TV.
  - No picture or sound
  - Some of the functions do not work by remote operation from the TV

- If the MHL does not work properly, also contact the manufacturer of the source device for advice on its use.
- Do not disconnect the power plug when the TV is active and the MHL device is being connected.
- Do not disconnect the power plug when the TV is in standby mode and the MHL device is being connected.

# The remote control

Simple at-a-glance reference of your remote control.



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 To access Quick Menu
- 5 To access the "TOSHIBA PLACES" Top Page  
When network is not connected, an error message will be displayed.
- 6 To access the analogue or digital Channel List
- 7 To alter the TV volume
- 8 Switch the Audio Description On/Off
- 9 To mute the TV sound
- 10 To change programme positions  
To change TEXT pages
- 11 On-screen Menus
- 12 To display the digital on-screen Programme Guide
- 13 When using menus, the arrows move the cursor on the screen up, down, left or right
- 14 Press **OK** to confirm your selection
- 15 To return to previous Menu
- 16 To exit menus

- 17 **Colour buttons:** Text and interactive service control buttons
- 18 Number buttons
- 19 To display on-screen information  
To access the index page in Text mode
- 20 To return to previous programme position

## 21 When in TV mode:

- Analogue time display

## When in Text mode:

- To reveal concealed text
- To hold a page
- To enlarge text display size
- To temporarily erase the text screen

## When using Programme Guide:

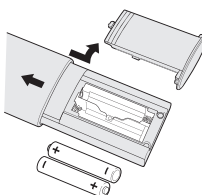
- 24 hours
- +24 hours
- 1 page
- +1 page

## During Playback:

- To PLAY
- To STOP
- To PAUSE/STEP
- To start Time Shift Recording
- To SKIP-BACK
- To REWIND
- To FAST FORWARD
- To SKIP-FORWARD

- 22 To record TV programmes
- 23 To call up text services
- 24 To perform Face Tracking while watching 3D
- 25 To switch between 2D and 3D mode
- 26 To access Media Player Menu
- 27 Selectable Picture preferences
- 28 Widescreen viewing
- 29 Stereo/bilingual transmissions
- 30 Picture still
- 31 To access More Information Menu
- 32 Digital Subtitles or Analogue TEXT Subtitle pages if available

## Inserting batteries and effective range



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the proper way. Suitable battery types for this remote are AAA, IEC R03 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Remove dead

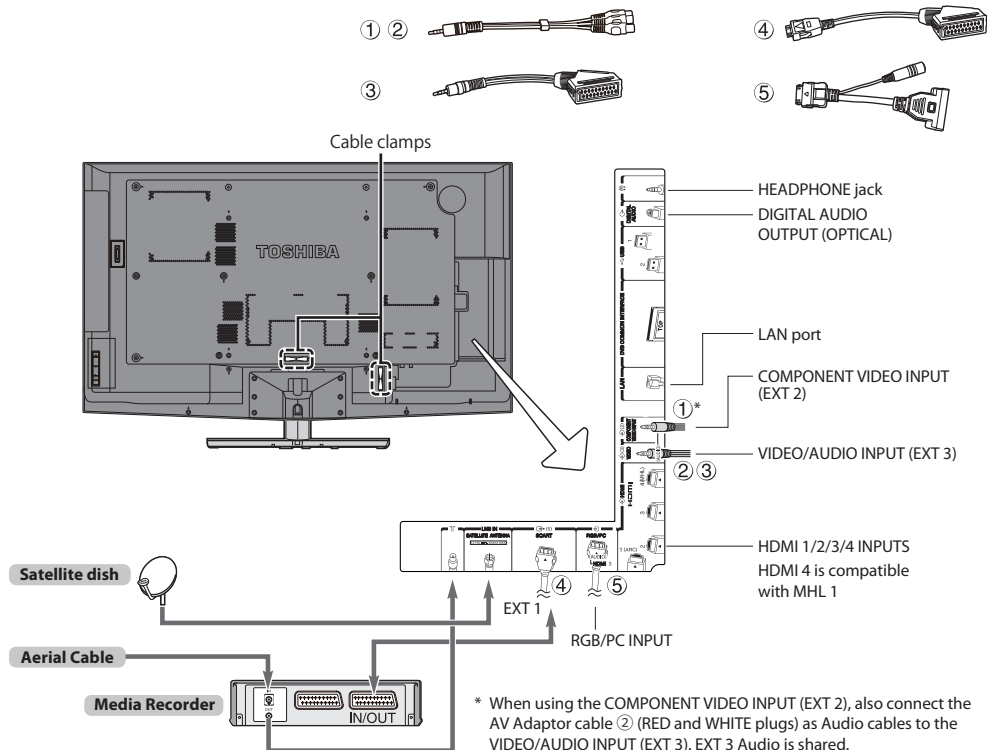
batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 100 of this manual.

**Warning:** Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced, the batteries may need replacing.

## Connecting external equipment

**Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.**



### Aerial cables:.....

Connect the aerial to the socket on the rear of the television. If you use a decoder and/or a media recorder, it is essential that the aerial cable is connected through the decoder and/or through the media recorder to the television.

### Satellite cable:.....

Connect the LNB from the satellite dish to the **SATELLITE ANTENNA** socket on the TV. You can receive TV, radio, interactive TV, and HD TV with clear reception.

### SCART leads:.....

Connect the media recorder **IN/OUT** socket to the television. Connect the decoder **TV** socket to the television.

Before running **Auto Tuning**, put your decoder and media recorder to **Standby**.

The Digital Audio Output socket enables the connection of a suitable surround sound system.

**NOTE: This output is always active.**

HDMI® (High-Definition Multimedia Interface) is for use with a DVD decoder or electrical equipment with digital audio and video output. For acceptable video or PC signal formats through the HDMI terminals, see page 102.

**NOTE:** Although this television is able to connect to HDMI equipment, it is possible that some equipment may not operate correctly.

**LAN** port is used to connect the TV to your home network. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function.

**A wide variety of external equipment can be connected to the back of the television; therefore, the relevant owner's manuals for all additional equipment must be referred to for exact instructions.**

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired programme position button. To recall external equipment, press **⏮** to select between **DTV, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC** or **ATV**.

When the external input mode is selected while viewing DTV mode, the SCART socket does not output video/audio signals.

## Connecting an HDMI® or DVI device to the HDMI input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 102.

### NOTE:

- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard. Please unplug your HDMI cable first and then try setting the **INSTAPORT™** and **Enable Content Type** options to "Off". Your early HDMI source should operate properly with your television. See page 89.
- Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

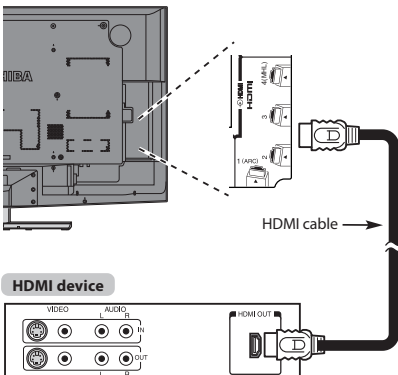
## To connect an HDMI device


Connect an HDMI cable (type A connector) to the HDMI terminal.

For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (**HDMI**).

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this model.
- HDMI cable connects both video and audio. Separate analogue audio cables are not required (see illustration).
- See "HDMI 3 Audio" section on page 88.

### the back of your television



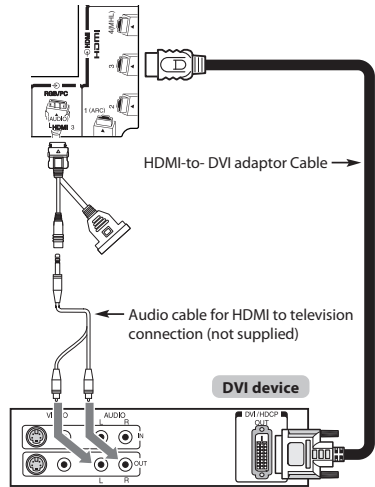
To view the HDMI device video, press the  button to select HDMI 1, HDMI 2, HDMI 3 or HDMI 4 mode.

## To connect a DVI device

Connect an HDMI-to-DVI adaptor cable (HDMI type A connector) to the HDMI 3 terminal and audio cables to the PC/ HDMI 3 (AUDIO) socket (see illustration).

- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only. Separate analogue audio cables are required.
- See "HDMI 3 Audio" section on page 88.

### the back of your television



### NOTE:

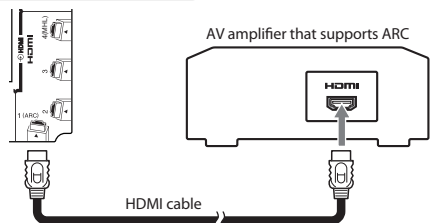
To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the television first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the television.

## HDMI's ARC (Audio Return Channel) feature

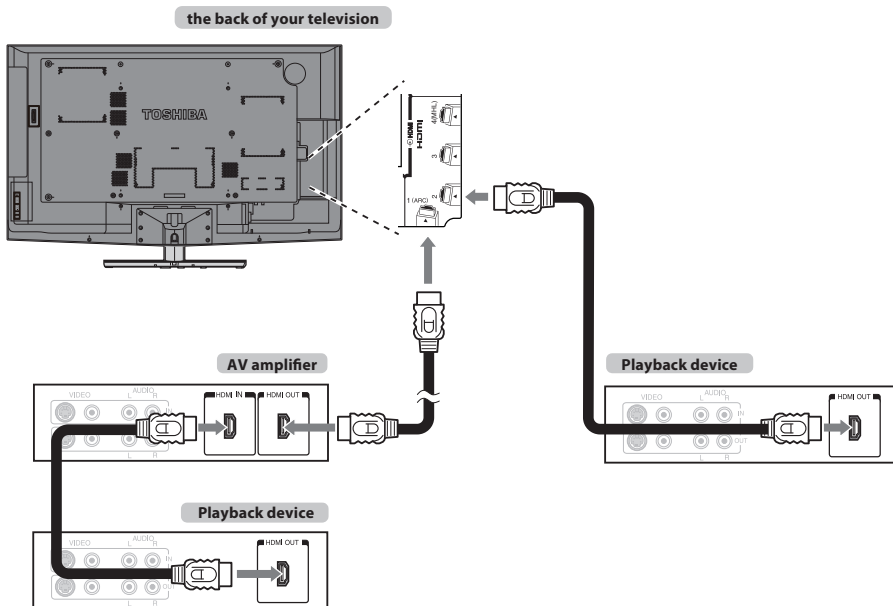
This feature enables the audio signal of the TV to be sent to the AV amplifier via the HDMI cable. It will not be necessary to connect a cable from the audio output of the TV to the audio input of the AV amplifier to reproduce the audio received from the tuner of the TV through the AV amplifier.

### the back of your television



## REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the television's remote control if you connect a REGZA-LINK compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 91–93.



For the setup shown above, you will need three HDMI cables.

### NOTE:

- If several devices are connected, the REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (**HDMI**).
- This function is available when one PC and one AV amplifier are connected separately. However, it may not operate properly if the PC is connected via the AV amplifier.

### Before controlling the device(s):

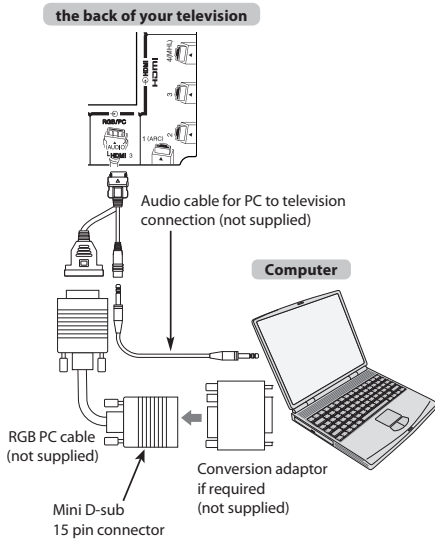
- After completing the above connections, set the REGZA-LINK Setup menu as you desire (see page 91).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

## Connecting a computer

With either an RGB/PC or an HDMI connection, you can watch your computer's display on the television and hear the sound from the television's speakers.

### To connect a PC to the RGB/PC terminal

When connecting a PC to the RGB/PC terminal on the television, use an analogue RGB (15-pin) computer cable and a PC audio cable for the PC/HDMI 3 (AUDIO) socket. Select **PC** from the **PC/HDMI 3 Audio** options in the **AV Connection** menu located in the **Preferences** menu.



To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 101.

To display the optimum picture, use the PC setting feature (see page 86).

#### NOTE:

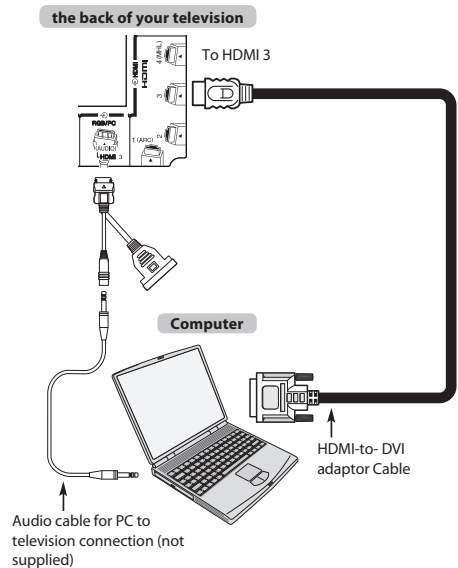
- The PC audio input terminal on the television is shared with the HDMI 3 analogue audio input terminal (see page 88).
- Some PC models cannot be connected to this television.
- An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.

- When PC input mode is selected, some of the television's features will be unavailable e.g. **Colour System** in the **Setup/System Setup** menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 101).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

### To connect a PC to the HDMI terminal

When connecting a PC to the HDMI terminal on the television, use an HDMI-to-DVI adaptor cable and an analogue audio cable.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). A separate analogue cable is not necessary.



For acceptable PC and video signal formats, see page 102.

#### NOTE:

- The edges of the images may be hidden.
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

## Connecting a home network

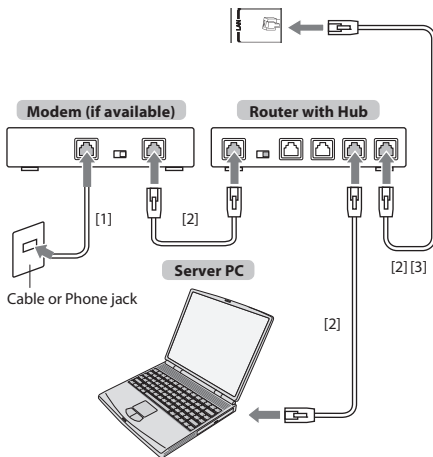
The LAN port allows your Toshiba TV to connect to your home network. You can use this revolutionary home entertainment networking system to access photo, video and audio files that are stored on a DLNA CERTIFIED™ server and play/display them on your TV.

### NOTE:

- If you connect to a shared network outside your home, it is advisable to use a router. Always use DLNA CERTIFIED™ products in private network environments.
- If you use a hub or switch to connect the TV to your home network, you may not be able to use the automatic setup and will have to manually set up the network address. See page 50.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN cable.

## To connect the TV to a home network - Wired

the back of your television



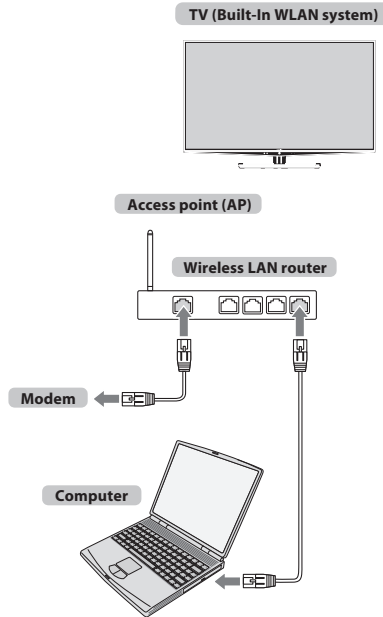
[1] Coaxial or telephone cable (depending on your modem type)

[2] Standard LAN cable

[3] Do NOT connect a phone jack directly to the TV's LAN port.

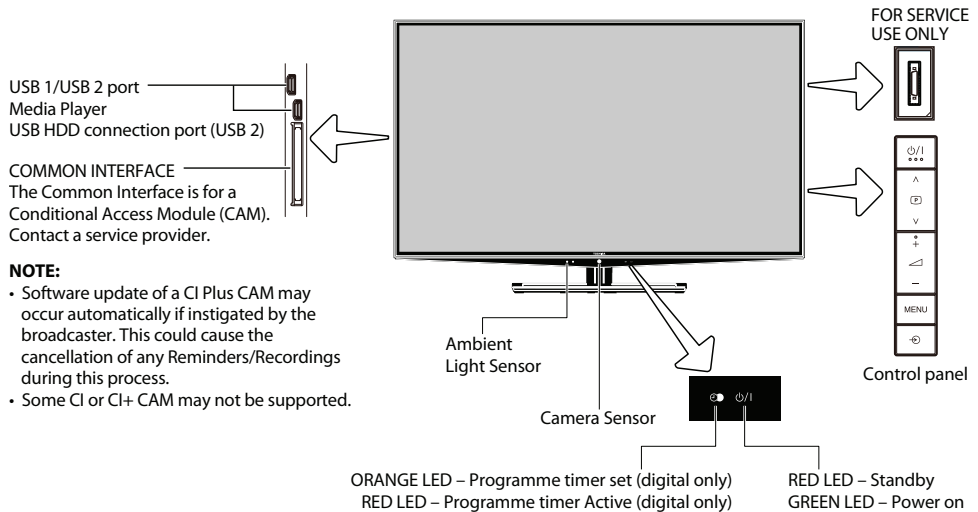
## To connect the TV to a home network with an internet connection - Wireless

Please refer to "Wireless Setup" section on page 47.



## Controls and input connections

A wide variety of external equipment can be connected to the input sockets on the side of the television. While all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.



### Switching on

If the RED LED is not lit, check that the mains plug is connected to the power supply and press on the remote control; it may take a few moments. The GREEN LED will be lit.

To put the television into Standby, press on the remote control. To view the television, press again. The picture may take a few seconds to appear.

#### For energy saving:

We recommend that you use the television with the factory settings. The factory settings are for energy saving. Unplugging the mains plug will cut energy use to zero for all televisions. This is recommended when the television is not being used for a long time, e.g. when on holiday. Reducing the brightness of the screen will reduce energy use. Energy efficiency cuts energy consumption and thus saves money by reducing electricity bills.

**NOTE:** Putting the television into standby mode will reduce energy consumption, but will still draw some power.

### Using the menu system

Press **MENU** on the remote control to display the menu.

The five initial topics icons will appear. As each symbol is selected by pressing or on the remote control. Press or to enter a sub menu and then enter a further sub menu to see any options.

**NOTE:** The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however, where some items are not available in a mode, they will appear grayed out.

To use the option, press and on the remote control to move up and down and press or to select your desired setting. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

### Using the TV controls and connections

- To turn on or off the TV, press .
- To alter the volume, press .
- To alter the programme position, press .
- Press **MENU** and , to control the sound and picture options. Press **MENU** to finish.
- To select an external input, press until the appropriate input source is selected.

The Media Player feature provides access to photo, movie and music files stored on a USB storage device that is connected via the USB 1 or USB 2 port or on a network device.

The USB 2 port has to be used with a USB HDD (not supplied) in order to record/playback TV programmes.

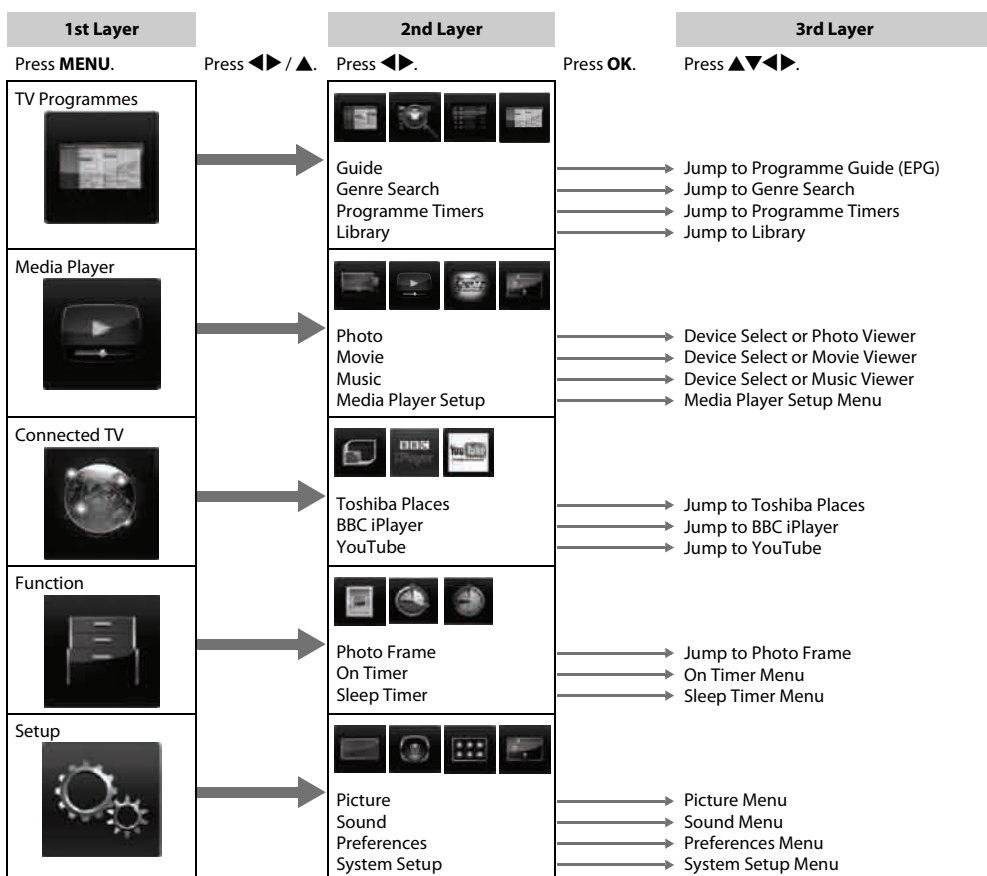
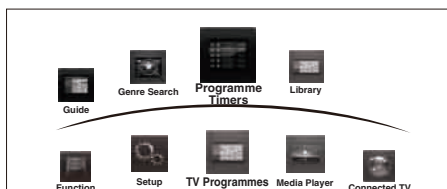
**NOTE:** The USB socket has limited functionality and Toshiba can take no responsibility for damage to other connected equipment.

Please always refer to the owner's manual of the equipment to be connected for full details.

**NOTE:** Interactive video games that involve shooting a "gun" at an on-screen target may not work with this TV.

## MENU structure

To open the main menu (illustration below), press **MENU** on the remote control or on the TV control panel.



## Startup Application

Before switching on the television, set your decoder and media recorder, if applicable, to **Standby**. To set up the television, use the buttons on the remote control as detailed on page 8.

### Quick Setup

- 1 Press the **⏻** button. The **Menu Language** screen will appear. This screen will appear the first time that the television is switched on and each time **Reset TV** is selected.
- 2 Press **▲▼◀▶** to select the menu language and press **OK**.
- 3 Highlight **Country** and press **◀▶** to select. The television is now set to tune the stations for your country.

Quick Setup	
Country	English
Primary Subtitle Language	English
Secondary Subtitle Language	English
Primary Audio Language	English
Secondary Audio Language	English

#### NOTE:

- The following display menus will differ slightly according to the country you selected.
- If there is not a country that you want to select in the list, select **Others**.

- 4 Press **OK**, and the **Location** screen will appear.

Location	
To use the TV for displaying in a store showroom, please select [Store]. [Home] mode is recommended for normal use.	
	Home

- 5 Press **◀▶** to select **Home** or **Store**. For normal home use, select **Home**.

Press **OK**, and if your country supports the USB Recorder function, the **USB 2 port Setup** screen will appear.

- 6 Press **OK**, and the **TV Mounting** screen will appear. Press **◀▶** to select **Stand** or **Wall**.

TV Mounting	
If you are mounting the TV on a wall please select [Wall]. [Stand] is recommended for other uses. This setting may be modified later under Sound Navi in the Sound menu.	
	Stand

- 7 Press **OK**, and the **AutoView** screen will appear. Press **◀▶** to select **Yes** or **No**.

AutoView	
AutoView mode automatically adjusts picture settings to suit ambient light conditions. Do you wish to enable AutoView mode?	
	No

- 8 Press **OK**. If the **Ant/Cable/Satellite** screen appears, press **▲▼** to select **Antenna**, **Cable** or **Satellite** and press **OK** to check (✓).

Ant/Cable/Satellite	
<input checked="" type="checkbox"/> Antenna	
<input type="checkbox"/> Cable	
<input type="checkbox"/> Satellite	
	Next

If DVB-C is not supported in your area, **Cable** will not be displayed.

- When you select **Antenna** or **Cable**, follow steps 9 to 12.
- When you select **Satellite**, skip to step 13.
- When you select **Antenna** (or **Cable**) and **Satellite**, the Satellite Settings startup screen will appear automatically after completing the **Antenna** (or **Cable**) scan and pressing **OK**.

- 9 Select **Next** and press **OK**. The **Auto Tuning** start up screen will appear with the option to select between **DTV and ATV**, **DTV** or **ATV** if available. Use **◀▶** to select the appropriate mode.

- 10 Press **▲▼** to highlight **Start Scan** and press **OK**.

The television will start to search for available **DTV** and/or **ATV** channels. The progress bar will indicate the scan status.

**You must allow the television to complete the search.**

Auto Tuning		
	Progress	Found
DTV Tune	3% <div></div>	2
ATV Tune	Waiting...	
Channel: C7		

When the search is complete, the television will automatically select position one.

The **Auto Tuning** screen will display the total number of services found.

**NOTE:** If there are multiple channels with the same channel number, a confirmation window will appear. Press **◀▶** to select the one you prefer.

- 11** Press ◀ or ▶ to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

- 12** Press ▲ or ▼ to move through the list to select a channel and press **OK** to view.

In **ATV** mode, some areas may receive duplicate stations. There may not be a clear picture or the signal may be weak, so the station order can be changed using **ATV Manual Tuning**.

**REMEMBER:** Press **TV** at any time to select between **ATV** and **DTV** (DTV Ant TV/Radio/Text, DTV Cable TV/Radio/Text, DTV Sat TV/Radio/Text if available) modes.

**NOTE:** The time will be set automatically by transmission but can be advanced or decreased by using **Local Time Setting** in the **DTV Settings** screen.

- 13** Select **Next** and press **OK**. The **Satellite Settings** screen will appear. From this window, you can add the satellites that you wish to tune and configure detailed settings for each one individually. See "Satellite Settings" on page 19.

No.	Satellite	Dish	LNB
1	ASTRA 19.2°E	1	1
2			
3			
4			

Transponder : 1/83 (10743 MHz)  
 Dish Type : Fixed  
 Lower LOF (MHz) : 9600  
 Upper LOF (MHz) : 10600

Done

Highlight **Done** and press **OK**.

- 14** If your satellite dish is movable, the following **Positioning** screen will appear.

Positioning

Satellite : ASTRA 19.2°E

Transponder 1/83 (10743 MHz H)

Go to 0

Go to Stored Position

Step Size 1

Positioning ◀ W E ▶

Store Position

Signal Level 30%

Press ▲ or ▼ to highlight **Positioning** and press ◀ or ▶ to find the dish position with the strongest signal level.

Press ▲ or ▼ to highlight **Store Position** and press **OK** to store the dish position. Repeat steps 13 and 14 for the next satellite as necessary.

If your satellite dish is not movable, the **Positioning** screen will not appear.

Adjust the dish position manually for the maximum Signal Level strength.

Highlight **Done** and press **OK**.

- 15** If the reception testing completes successfully, the **Auto Tuning** startup screen will display.

Auto Tuning - Satellite

Start Scan

Satellite	◀ ASTRA(19.2°E) ▶
Scan Option	Free to Air

You can select **Scan Option** from **Free to Air** and **All**.

- 16** Press ▲ or ▼ to highlight **Start Scan** and press **OK**.

The television will start to search for available **DVB-S** channels. The progress bar will indicate the scan status.

When the search is complete, the **Auto Tuning** results screen will display the total number of services found.

- 17** Press ▲ or ▼ to move through the list to select a channel and press **OK** to view.

#### PLEASE NOTE

The **Quick Setup** menu can also be accessed at any time from the **Setup/System Setup** menu.

### Ant/Cable/Satellite (if available)

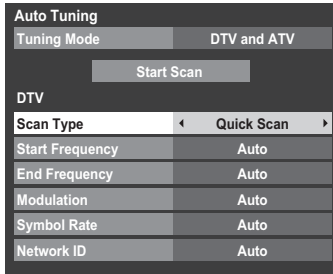
From this menu, you can set the RF input configuration.

- 1** Press **MENU** / ◀▶ to highlight **Setup** icon.
- 2** Press ▲ / ◀▶ to highlight **System Setup** icon.
- 3** Press **OK** to display **System Setup** menu.
- 4** Press ▲ or ▼ to select **Ant/Cable/Satellite** and press ◀ or ▶ to select **Antenna**, **Cable** or **Satellite**.

**NOTE:** When you attempt to change the **Ant/Cable/Satellite** setting, a warning message will appear followed by PIN entry (if PIN has been set) and a prompt for **Auto Tuning**.

- 5** When **Ant/Cable/Satellite** is set to **Cable**, the following setting options will be provided in the **Auto Tuning** screen.

Press **▲** or **▼** to select an item and press **◀** or **▶** to select your desired option.



With the exception of **DTV Scan Type** and **DTV Modulation** items, all of the following items will have 2 operating modes. The first is **Auto** where the values for each item are preset by the system. The second is an **Input** mode where you will be able to enter a single value in place of the pre-set value. If no channel is currently tuned and the **Input** state is chosen, a system default value will be shown. However, if a channel is currently tuned when the item is accessed, the value of the current channel will be displayed.

### DTV Scan Type:

This item determines whether a **Quick Scan** or a **Full Scan** will be executed.

The **Quick Scan** is a simplified version of the **Full Scan** that is designed to complete in less time.

### DTV Start Frequency:

This sets the frequency from which the scan will begin.

### DTV End Frequency:

This sets the frequency at which the scan will end.

### DTV Modulation:

You can choose from five QAM modulation settings.

### DTV Symbol Rate:

This is the baud rate (KS/s) of the scan.

### DTV Network ID:

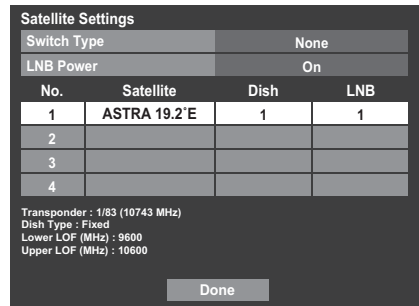
This is the Network ID to be utilized for the scan. This item is grayed out when DTV Scan Type is set to "Full Scan".

## Satellite Settings

*From the System Setup menu, you can add the satellites that you wish to tune and configure detailed settings for each one individually.*

### To add a satellite:

- 1** Press **MENU** / **◀▶** to highlight **Setup** icon.
- 2** Press **▲** / **◀▶** to highlight **System Setup** icon.
- 3** Press **OK** to display **System Setup** menu.
- 4** Press **▲** or **▼** to select **Satellite Settings** and press **OK**.



- 5** Press **▼** to highlight a new line to add another satellite and press **OK**.
- 6** Press **▼** until the required satellite is displayed and press **OK**.

### To delete a satellite:

- 1** In the **Satellite Settings** menu, press **▲** or **▼** to select the satellite you want to delete.
- 2** Press the **RED** button. A confirmation window will appear.
- 3** Press **◀** or **▶** to select **Yes** and press **OK**.

**NOTE:** It is not possible to delete position No.1.

**To edit the satellite settings:**

- 1 In the **Satellite Settings** menu, press **▲** to highlight **Switch Type**.
- 2 Press **◀** or **▶** to select **None**, **ToneBurst**, **DiSeqC 2way** or **DiSeqC 4way** as your satellite switch type.
- 3 Press **▼** to highlight **LNB Power** and press **◀** or **▶** to select **On** or **Off**.

**To add a transponder:**

- 1 In the **Satellite Settings** menu, press **▲** or **▼** to highlight the line you want to edit and press **OK**.

1	ASTRA 19.2°E	1	1
---	--------------	---	---

- 2 Press the **GREEN** button. The **Transponder Settings** screen will appear.

Transponder Settings				
	Frequency	Polarisation	Symbol Rate	S/S2
1	10743	H	22000	S
2	10773	H	22000	S
3	10788	V	22000	S
4	10817	V	22000	S
5	10832	H	22000	S
6	10847	V	22000	S
7	10861	H	22000	S
8	10876	V	22000	S

- 3 Press **▲** to highlight a new line.

Transponder Settings				
	Frequency	Polarisation	Symbol Rate	S/S2
76	12640	V	22000	S
77	12662	H	22000	S
78	12669	V	22000	S
79	12692	H	22000	S
80	12699	V	22000	S
81	12721	H	22000	S
82	12728	V	22000	S
83				

- 4 Press **OK**.

83	0	H	0	S
----	---	---	---	---

- 5 Edit each parameter as required and press **OK**.

83	12731	H	22000	S2
----	-------	---	-------	----

**To delete a transponder:**

- 1 In the **Transponder Settings** menu, press **▲** or **▼** to highlight the line you want to delete.

- 2 Press the **RED** button.

**To edit the Transponder Settings:**

- 1 In the **Transponder Settings** menu, press **▲** or **▼** to highlight the line you want to edit and press **OK**.

- 2 Press **◀** or **▶** to select **Frequency**, **Polarisation**, **Symbol Rate** or **S/S2**, and set the item using the number buttons if necessary.

- 3 Press **OK** to save your settings.

- 4 Repeat steps 1 through 3 for other lines.

- 5 Press the **BLUE** button to finish editing and return to Satellite Settings.

Press the **GREEN** button to cancel any edits that were made.

Press the **YELLOW** button to reset all transponder settings to their initial default settings.

**To select the Dish Type:**

- 1 In the **Satellite Settings** menu, press **▲** or **▼** to select the required satellite line and press **OK**.

- 2 Press **◀** or **▶** to highlight **Dish** and press the **GREEN** button.

Dish Settings	
Dish : 1	
Dish Type	Fixed

- 3 Press **◀** or **▶** to select **Dish Type**. You can select **Movable** or **Fixed** as the Dish Type.

## To select the LNB Settings:

- 1 In the **Satellite Settings** menu, press **▲** or **▼** to select the required satellite line and press **OK**.
- 2 Press **◀** or **▶** to highlight **LNB** and press the **GREEN** button.

LNB Settings	
LNB : 1	
Lower LOF	9750
Upper LOF	10600

- 3 Press **▲** or **▼** to select **Lower LOF** or **Upper LOF** and input the appropriate frequencies.

## Auto Tuning

**NOTE:** As new services are broadcast, it will be necessary to re-tune the television in order to view them.

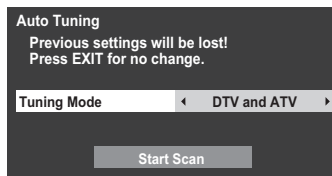
**Auto Tuning** will completely re-tune the television and can be used to update the channel list. **It is recommended that Auto Tuning is run periodically to ensure that all new services are added.** All current channels and settings, i.e. locked channels, will be lost.

- 1 Press **MENU** / **◀▶** to highlight **Setup** icon.
- 2 Press **▲** / **◀▶** to highlight **System Setup** icon.
- 3 Press **OK** to display **System Setup** menu.
- 4 Press **▲** or **▼** to select **Auto Tuning** and press **OK**.

System Setup	
Menu Language	English
Country	Germany
Ant/Cable/Satellite	
Satellite Settings	
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	

## 5 For DTV/ATV Tuning:

A screen will appear warning that previous programmes and settings will be deleted.



Press **◀** or **▶** to select **DTV and ATV**, **DTV** or **ATV**, if available, then highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

**NOTE:** If you have selected "Others" for the **Country** field in the **System Setup** menu, and selected a tuning mode other than "DTV", choose the optimum ATV broadcasting system (B/G, I, D/K or L).

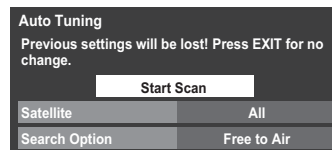
The television will start to search for all available DTV and/or ATV services.

**You must allow the television to complete the search.**

When the search is complete, the **Auto Tuning** screen will display the services found.

## For Satellite Tuning:

A screen will appear warning that previous programmes and settings will be deleted.



Press **▲** or **▼** to highlight **Satellite** and press **◀** or **▶** to select the desired satellite (**No.1 Sat ~ No.4 Sat** or **All**).

You can select **Free to Air** or **All** as the Search Option. Highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

When the search is complete, the **Auto Tuning** screen will display the services found.

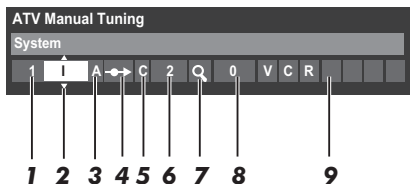
- 6 Press **▲** or **▼** to move through the list to select a channel and press **OK** to view.

# ATV Manual Tuning

## Tuning

The television can be tuned-in manually using **ATV Manual Tuning**. For example, you might use the feature if the television cannot be connected to a media recorder/decoder with a SCART lead or when you want to tune-in a station on another **System**.

Use ◀ and ▶ to move across the screen and select any of the ATV Manual Tuning options. Then use ▲ or ▼ to adjust the settings.



### 1 Position

The number to be pressed on the remote control to tune the channel.

### 2 System

Specific to certain areas.

### 3 Colour System

Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

### 4 Skip

Set Skip to On (↺) or Off (↻) for the selected channel. See page 23.

### 5 Signal Class

The channel classification.

### 6 Channel

The channel number on which a station is being broadcast.

### 7 Search

Search up and down for a signal.

### 8 Manual Fine Tuning

Only used if interference/weak signal is experienced. See page 96.

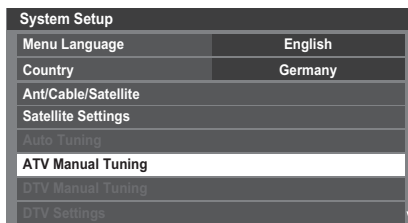
### 9 Station

Station identification. Use the ▲ ▼ and ◀ ▶ buttons to enter up to seven characters.

To allocate a position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder, press PLAY and manually tune.

1

In the **System Setup** menu, press ▼ to select **ATV Manual Tuning** and press **OK**.



2

Use ▲ or ▼ to select the desired position. We suggest **Pos. 0** for a media recorder.

ATV Manual Tuning		
Pos.	Channel	Station
1	C2	
2	S10	
3	C7	
4	S40	
5	C22	
6	C25	
7	C28	
8	C30	

Different **Channel** numbers may be displayed.

3

Press **OK** to select. If the channel chosen for the media recorder is set to skip, Skip should be removed before storing.

4

Press ▶ to select **System** and press ▲ or ▼ to change if required.



5

Then press ▶ to select **Search**.

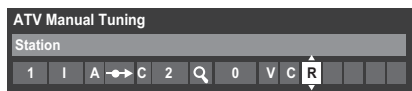
6

Press ▲ or ▼ to begin the search. The search symbol will flash.



- 7** Each signal will show on the television. If it is not your media recorder, press ▲ or ▼ again to restart the search.

- 8** When your media recorder signal is found, press ► to move along to **Station**. Use ▲, ▼, ◀ and ▶ to put in the required characters, e.g. **VCR**.



- 9** Press **OK** to save.

- 10** Repeat for each **position** you want to tune, or press **BACK** to return to the list of channels and select the next number to tune.

- 11** Press **EXIT** when you have finished.

#### PLEASE NOTE

This television has direct channel entry if the channel numbers are known. Select the **ATV Manual Tuning** screen in **Step 3**. Enter the **Position number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to save.

## Skip

To prevent certain channels from being viewed, positions can be skipped.

- 1** Select **ATV Manual Tuning** from the **System Setup** menu.
- 2** Use ▲ or ▼ to highlight the position to be skipped and press **OK** to select.

ATV Manual Tuning		
Pos.	Channel	Station
1	C2	
2	S10	
3	C7	
4	S40	ABC1
5	C22	ABC1
6	C25	
7	C28	
8	C30	

- 3** Press ► to select **Skip**.

- 4** Use ▲ or ▼ to turn **Skip** on. Press **OK**.

👁 on the screen indicates a skipped position.



- 5** Press **BACK** and repeat from **Step 2** or press **EXIT**.

Each position has to be *individually* selected. To turn **Skip** off, repeat the procedure for each position.

Skipped positions **cannot** be selected by **P▲** and **P▼** or by the controls on the television but **can** still be accessed by the number buttons on the remote control.

## Sorting positions

Channels may be moved and saved to the position of your choice.

- 1** Select **ATV Manual Tuning** from the **System Setup** menu.
- 2** With the list of channels showing, use ▲ or ▼ to highlight the channel you want to move and press ►.

ATV Manual Tuning		
Pos.	Channel	Station
2	S10	
3	C7	
4	C40	ABC1
5	C22	ABC1
1	C2	
6	C25	
7	C28	
8	C30	

- 3** Use ▲ or ▼ to move through the list to your preferred position. As you do so, the other channels will move to make room.
- 4** Press ◀ to save your move.
- Repeat as necessary and press **EXIT**.

## DTV Manual Tuning

**NOTE:** The content of this menu varies depending on the DTV input (Antenna, Cable, or Satellite) that is currently selected.

### Manual Tuning

*This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.*

- 1 Select **DTV Manual Tuning** from the **System Setup** menu and press **OK**.

- 2 Enter the multiplex number using the number buttons or use ◀ or ▶ to adjust the number up or down.

- 3 Highlight **Start Scan** and press **OK**. The television will automatically search for that multiplex.

When the multiplex is found, any channels that are not currently in the channel list will be added and the channel information at the top of the screen will be updated.

- 4 Repeat as necessary. Press **EXIT** to finish.

### Manual Tuning for DVB-C

When **Ant/Cable/Satellite** is set to **Cable**, **DTV Manual Tuning** items are as follows:

**Frequency** – input a specific frequency to be scanned

**Modulation** – choose from one of five QAM modulation options

**Symbol Rate** – input a specific baud rate (KS/s) to be used for the manual scan

Highlight **Start Scan** and press **OK**.

### Manual Tuning for DVB-S

When **Ant/Cable/Satellite** is set to **Satellite**, **DTV Manual Tuning** items are as follows:

Press ▲ or ▼ to highlight an item (**Satellite**, **Transponder**, **Frequency**, **Symbol Rate**, **Polarisation** or **Search Option**) and press ◀ or ▶ to select the required option.

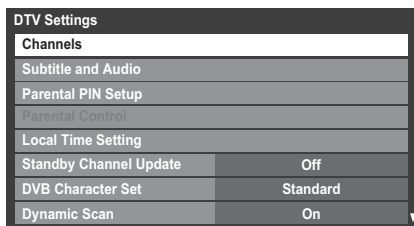
Highlight **Start Scan** and press **OK**.

## DTV Settings

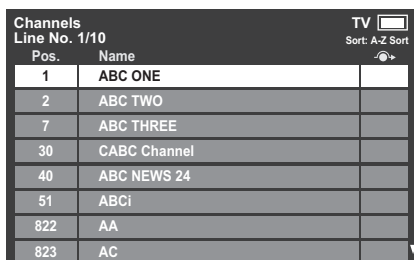
### Channels (Antenna/Cable)

The channel order may be changed to suit your personal preference.

- 1 Select **DTV Settings** from the **System Setup** menu and press **OK**.
- 2 Select **Channels** and press **OK**.



- 3 For your convenience, you can jump to specific places in the list by one of two methods.



**Line Number Jump** — Use the **number buttons** (0-9) to input the line number you want to select and press **OK**.

**Name Jump** — Press **◀◀** or **▶▶** to jump to the next station name with a different initial letter.

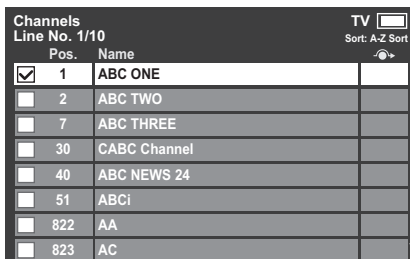
It is also possible to change the Position number of a particular channel.

**Renumber** — Press the **RED** button to renumber the highlighted channel. Edit the channel number using the **number buttons** and press **OK**. If the position number you input already exists, a confirmation window will appear.

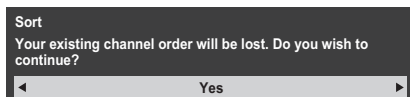


**Move** — Press the **GREEN** button to activate the **Move** feature. Press the **▲** or **▼** buttons to select the channel you wish to move and press **OK** to check. If you wish to move multiple channels at once, select another channel and check in the same way. Repeat as necessary.

Once all desired channels have been checked, press the **▲** or **▼** buttons to place the focus at the position to which you wish to move the channels. The channels will be inserted above the highlighted channel. Press the **GREEN** button to execute the move.



**Sort** — Press the **YELLOW** button. A confirmation window will appear. Press **◀** or **▶** to select **Yes** and press **OK**.



The **Sorting Type** selection window will appear.



Press **◀** or **▶** to set the sorting type.

**A-Z Sort** Station name order (A to Z)

**Number** Position No. order (numerical sequence)




Press **▼** to highlight **Sort** and press **OK**.

## Channels (Satellite)

**1** Select **DTV Settings** from the **System Setup** menu and press **OK**.

**2** Select **Channels** and press **OK**.

The satellite channel list will appear.

Channels Line No. 3/1200			Satellite TV 
Pos.	Station	Satellite	
1	DDD	19.2°E	
2	AB	19.2°E	
3	E	19.2°E	
801	BBC	22.5°E	
802	BB	22.5°E	
803	BA	22.5°E	
822	AA	25.6°E	
823	AC	25.6°E	

**3** For your convenience, you can edit and sort your channel list.

**Line Number Jump** — Press the **number buttons** (0-9) to input the line number you want to select and then press **OK**.

**Station Letter Jump** — Press **◀** or **▶** to jump to the next station name with a different initial letter.

**Satellite Jump** — Press **◀◀** or **▶▶** to jump to the next channel on a different Satellite.

**Renumber** — Same as Antenna/Cable channels. See page 25.

**Move** — Same as Antenna/Cable channels. See page 25.

**Sort** — Press the **YELLOW** button. A confirmation window will appear. Press **◀** or **▶** to select **Yes** and press **OK**.

The **Sort** menu will appear.

Sort	
Group	By Satellite
Sorting Type	Number
Preset Order	Yes
Sort	

**Group** — Press **◀** or **▶** to select **All** or **By Satellite**.

**Sorting Type** — Press **◀** or **▶** to set the sorting type.

**A-Z Sort** Station name order (A to Z)

**Number** Position No. order (numerical sequence)

**Preset Order** — Press **◀** or **▶** to set **Yes** or **No**.

This item is displayed when Country is set to Germany, and only applies to the Astra 19.2°E satellite.

Press **▼** to highlight **Sort** and press **OK**.

## Standby Channel Update

If the **Standby Channel Update** is set to **On**, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are saved.

**1** Select **DTV Settings** from the **System Setup** menu and press **OK**.

**2** Press **▼** to select **Standby Channel Update** and press **◀** or **▶** to select **On**.

## DVB Character Set

This feature allows you to manually select the character set (**Standard** = Table 0, **West** = Table 5 or **Latin alphabet 9**) to be used for DVB-C or DVB-T channels.

**1** Select **DTV Settings** from the **System Setup** menu and press **OK**.

**2** Press **▼** to select **DVB Character Set** and press **◀** or **▶** to select **Standard**, **West** or **Latin alphabet 9**.

## Dynamic Scan

If the broadcast information has changed in your DVB-T receiving area, the TV screen will display the message **"Broadcast information has changed. Would you like to rescan now?"**. Select **Yes** or **No**. If you do not wish for the TV to detect changes and prompt you to rescan, you should set this feature to **"Off"**.

**1** Select **DTV Settings** from the **System Setup** menu and press **OK**.

**2** Press **▼** to select **Dynamic Scan** and press **◀** or **▶** to select **On**.

## Location setting

You can select either **Home** or **Store** mode. **Home** is recommended for normal home use. Select **Store** when using the television for displaying in a shop, etc.

**1** Select **Location** from the **System Setup** menu.

**2** Press ◀ or ▶ to select **Home** or **Store**.

## Analogue switch-off

This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

This 'switch-off' will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new **digital** services can be viewed without disruption.

## General controls

### Quick Menu

**Quick Menu** helps you access some options quickly, such as **Picture Mode**, **Picture Size**, **Personal Mode**, **More Information**, **Sleep Timer** etc.

Press **QUICK** to display the **Quick Menu** and use ▲ or ▼ to select the option.

Quick Menu	
Picture Mode	◀ AutoView ▶
Picture Size	Super Live
3D Settings	
3D Viewing Position Test	
Personal Mode	
More Information	
Channel Options	
Sleep Timer	00:00
REGZA-LINK Device Control	
Speakers	TV Speakers
Headphone Level	50
Wireless Information	
Recording Information	

**NOTE:** **Quick Menu** items are different depending on the current mode.

### Quick menu item example

Mode	Quick menu item	Description
When viewing a TV programme or pictures from the external input	Picture Mode	See page 39.
	Picture Size	See page 37.
	3D Settings	See page 31.
	3D Viewing Position Test	See page 29.
	Personal Mode	See page 90.
	More Information	See page 80.
	Channel Options	See page 82.
	Sleep Timer	See page 78.
	REGZA-LINK Device Control	See page 92.
	Speakers	See page 91.
	Headphone Level	See page 36.
	Wireless Information	See page 49.
	Recording Information	See page 62.
	Genre Colour	See page 81.
	EPG Update/Cancel EPG Update	See page 80.
Single Window or 3D Single Window	Sort	See page 69.
	Playback Mode	See page 70.
	Interval Time	See page 69.
	Repeat	See page 69.
	Shuffle	See page 74.
	Device Information	See page 70.
	Wireless Information	See page 49.

Mode	Quick menu item	Description
Photo Frame (Full Screen)	Picture	See page 39.
	Picture Size	See page 37.
	3D Settings	See page 31.
	3D Viewing Position Test	See page 29.
	Personal Mode	See page 90.

### Selecting channels

To select a channel, use the numbered buttons on the remote control.

Channels can also be selected using **P▲** and **P▼**.

To display on-screen information such as channel, input mode or stereo/mono signal, press **[i+]**. Press again to cancel.

### The Time Display – analogue only

*The time display facility allows the current (text service) time to be seen on the television screen.*

Press **[⏻]/[⏮]** whilst watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

**NOTE:** This display may not be available in some cases.

### Stereo and Bilingual transmissions

#### For DTV programmes

For stereo or dual mono broadcasts, press **[⏻]/[⏮]** and use ◀ or ▶ to select settings.

Mode Display	Pressing ▶
⦶ Stereo	Stereo → Left → Right
●○ Dual mono	Dual 1 → Dual 2 → Dual
○ Mono	–
⦶ Multichannel	–

For multi-audio track broadcasts, press **[⏻]/[⏮]** repeatedly to change the audio language (see “Audio languages” on page 83).

#### For ATV programmes

If stereo or dual language broadcasts are transmitted, the word Stereo or Dual will appear on the screen each time channels are changed, disappearing after a few seconds. If the broadcast is not in stereo, the word Mono will appear.

**Stereo...** Press **[⏻]/[⏮]** to select **Stereo** or **Mono**.

**Bilingual...** Bilingual transmissions are rare. If they are transmitted, the word **Dual** will be displayed. Choose the required programme number, and if the word **Dual** appears, press **[⏻]/[⏮]** to select **Dual 1**, **Dual 2** or **Mono**.

## Using 3D functions

Before using the 3D feature, see and follow "When using the 3D feature" section on page 8.

### Viewing 3D programming requires the following:

- Compatible 3D playback device or 3D source
- 3D capable high quality HDMI cable

### About the Glasses Free 3D TV

Toshiba's new Glasses Free 3D TV allows you to view 2D and 3D content as 3 dimensional scenography without the need for corresponding 3D glasses.

Glasses Free 3D images may differ from traditional 3D televisions. Moreover 3D images may also differ by individual and content.

### Basic operation

When **3D Auto Start** in **3D Setup** menu is **Off** mode, if the TV detects 3D contents, the 3D menu will appear.

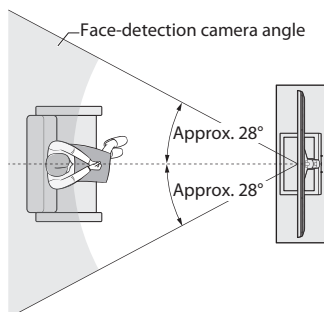
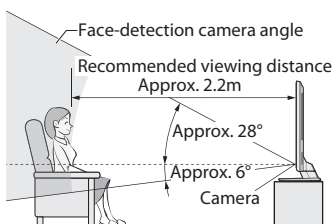
- 1 Press **◀** or **▶** to select **3D** and press **OK**.
- 2 Please read "3D Important Information" on screen carefully.
- 3 Press **◀** or **▶** to select **Yes** or **No**, and press **OK**.
- 4 You can now enjoy 3D image on your TV screen.
  - Recommended viewing position is about 2.2 meters away from the screen.
  - In order to switch between 3D and 2D images when viewing 3D content or to display 3D when viewing 3D content that the TV can not detect automatically, press the **3D** button on the remote control.

### When a 3D image does not look right

#### To use the Face Tracking feature

The built-in camera under the TV screen detects a viewer's face and adjusts the 3D image so it may appear correct from a viewer's position.

- The distance at which a viewer's face can be detected is in the range of approximately 2m-5m. View the TV from within this range. The recommended viewing distance is approximately 2.2m.





- 1 Press **TRACKING**.

If a 3D image still does not look right, perform the following **3D Viewing Position Test**.

#### To use the 3D Viewing Position Test feature

- 1 Press **QUICK** / **▲▼** to select **3D Viewing Position Test** and press **OK**.

A camera image will be displayed on the screen. If the face is detected by the camera, a frame will appear in the portion of a face.

- If the face is detected in the position where the 3D image is viewable, a blue frame  will appear.
- If the face is detected in the position where the 3D image is not viewable, a light-blue frame  will appear.
- Vertical lines are positioned to guide you to zones where 3D images can be viewed correctly. When a frame tracking a face is light-blue move within the limits of the vertical lines. The frame tracking a face will then turn blue stating Glasses Free 3D is optimized in this area.



If a 3D image does not look right even if the face is detected, perform the following operation.

- 2 Press **GREEN** button.

There are the 3D viewing position markers in three places at the top of the screen to indicate whether you are viewing the image in 3D.

If you can see the circles in the three places, your viewing position is appropriate.

- 3 Press **GREEN** button again.

The 3D markers on screen will disappear.

**4** Press **EXIT**, or if the 3D markers cannot be easily seen or you are not detected by the camera sensor, perform the following operation.

**5** Press **RED** button.  
The 3D markers will appear on screen.

To make clear the center circle, press ◀▶.

To make clear the side circles, press ▲▼.

If two or more people are watching the TV, you should each move to a position where you can view 3D images correctly.

**6** Press **EXIT**.

## Viewing 3D images

Incoming video signals can either be in 2D or 3D format. A 2D signal can be viewed in either 2D or 3D, and 3D can be viewed in either 2D or 3D. If the TV can detect the fact that a signal is 3D, it can change to 3D mode automatically – see “Setting the auto start mode” (on page 32). Otherwise you can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TB). You may have to choose the correct format if the TV can not detect it automatically – see “Switching display mode or selecting 3D format”.

Moreover, you can change 2D images to 3D images by pressing the 3D button when viewing in 2D.

### NOTE:

- When 3D format signal is not received, display mode is not switched to 3D.
- If appropriate mode and format are not selected, 3D image is not correctly displayed.
- There will be restrictions on the Picture Size settings for 3D Mode and 2D Mode.
- There are individual differences in perception of 3D images.
- The 2D to 3D conversion function is activated and controlled by you according to your personal preferences.
- The 2D to 3D conversion function is meant for enjoyment of 2D home video, and other 2D content you create, in 3D according to your personal preferences.
- The 2D to 3D conversion function is not intended for use with pre-recorded 2D copyrighted content owned by a third-party unless the copyright owner has given direct or indirect permission, or unless applicable law permits such use.

## Switching display mode or selecting 3D format




There are four modes for watching TV.

Mode	Description
3D	Displays 3D images.
2D	Changes 3D images to 2D.
2D to 3D	Changes 2D images to 3D.
Native	Displays a received signal format as it is.

### 3D format select:

If a right and left images are same in Native mode, select SBS.

If a top and bottom images are same in Native mode, select TB. 3D formats are the following.

3D format	Description
Side by Side (SBS)	Images for the left and right eyes are positioned side-by-side. 
Top and Bottom (TB)	Images for the left and right eyes are positioned at the top and bottom of the screen. 
Frame Packing (FP) *	Image for the left and right eyes for two frames are positioned at the top and bottom of the screen. 

\* This format cannot be selected manually.














### The 3D button's operation:

The behaviour of **3D** when viewing in Native mode is different depending on the input mode.

Depending on the input mode, the screen for selecting 2D or 3D is displayed or the display mode switches between 2D and 3D.

### To switch to 3D mode:

- Set **Preferences / 3D Setup / 3D Auto Start** to **3D**.
- Press **3D** while viewing 2D mode or Native mode.

Trigger of Switching Display Mode				Press 3D button	
Input Signal				Select 3D	Select 2D to 3D
Type	Additional Information	Format	Source Signal	Select 3D	Select 2D to 3D
3D Format Signal	With 3D Auto Detect Information	FP		*	
				*	
				*	
	Without 3D Auto Detect Information	SBS			
		TB			
		2D Format Signal			

\* Correct 3D image

To select 3D format from the Quick menu in 3D mode:




















- 1 Press **QUICK** to display the **Quick Menu**.
- 2 Press **▲** or **▼** to select **3D Settings** and press **OK**.
- 3 Press **▲** or **▼** to select **3D Format Select** and press **OK**.
- 4 Press **◀** or **▶** to select **Side by Side** or **Top and Bottom**.

Trigger of Switching Display Mode				Quick menu	
Input Signal				3D Fomat Select	
Type	Additional Info	Format	Source Signal	SBS	TB
3D Format Signal	With 3D Auto Detect Information	FP			
		SBS			
	TB				
	Without 3D Auto Detect Information	SBS			
		TB			
2D Format Signal					

\* Correct 3D image

To switch to 2D mode:

- Set **Preferences / 3D Setup / 3D Auto Start** to **2D**.
- Press **3D** while viewing 3D mode or Native mode.

Trigger of Switching Display Mode				Press 3D button
Input Signal				
Type	Additional Info	Format	Source Signal	
3D Format Signal	With 3D Auto Detect Information	FP		* 
				
		SBS	 	* 
	TB	 	* 	
	Without 3D Auto Detect Information	SBS	 	 
		TB	 	 
2D Format Signal				* 

\* Correct 2D image

To select 2D format from the Quick menu in 2D mode:

- 1 Press **QUICK** to display the **Quick Menu**.
- 2 Press **▲** or **▼** to select **3D Settings** and press **OK**.
- 3 Press **▲** or **▼** to select **2D Format Select** and press **OK**.
- 4 Press **◀** or **▶** to select **2D (SBS)** or **2D (TB)**.

Trigger of Switching Display Mode				Quick menu		
Input Signal				2D Format Select		
Type	Additional Info	Format	Source Signal	SBS	TB	Native
3D Format Signal	With 3D Auto Detect Information	FP				
		SBS		*		
		TB			*	
	Without 3D Auto Detect Information	SBS		*		
		TB			*	
2D Format Signal						

\* Correct 2D image

To switch to Native mode:

- Press **3D** while viewing 3D mode.
  - Press **3D** while viewing 2D to 3D mode.
- NOTE:** When 3D format signal with 3D Auto Detect Information is received, it is not possible to switch to Native.
- From the **Quick Menu** in 2D mode.

- 1 In the **Quick Menu**, press **▲** or **▼** to select **3D Settings** and press **OK**.
- 2 Press **▲** or **▼** to select **2D Format Select** and press **OK**.
- 3 Press **◀** or **▶** to select **Native**.

**NOTE:** When Frame Packing is input, 2D Format Select will be grayed out.

To switch to 2D to 3D mode:

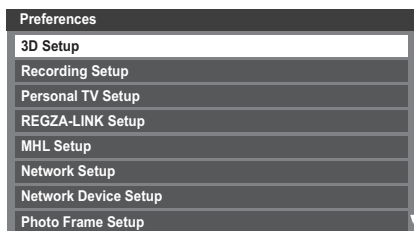
Press **3D** while viewing 2D or Native mode.

**NOTE:** Depending on the input mode, the display mode switches between 2D and 3D.

## Setting the auto start mode

*Controls what the TV does when it detects a 3D signal.*

- 1 Press **MENU** / ◀▶ to highlight **Setup** icon.
- 2 Press ▲ / ◀▶ to highlight **Preferences** icon and press **OK**.
- 3 Press ▲ or ▼ to select **3D Setup** and press **OK**.



- 4 Press ▲ or ▼ to select **3D Auto Start**.
- 5 Press ◀▶ to select **3D**, **2D**, or **Off**.

Option	Description
3D	Displays as 3D mode automatically when 3D format signal is received.
2D	Displays as 2D mode automatically when 3D format signal is received.
Off	Displays a screen that allows you to select 3D or 2D when 3D format signal is received.

## Setting the 3D Viewing Mode

*3D images are created by combining two different images, one seen by the right eye and the other by the left eye (parallax). This TV is equipped with **Single-viewer Mode** and **Multi-viewer Mode**. By switching modes, the stereoscopic effect and viewing range (range of viewing position in which images can be seen in 3D) can be changed.*

- **Multi-viewer Mode** is the default setting at the time of purchase.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **3D Viewing Mode**.
- 3 Press ◀▶ to select **Multi-viewer Mode** or **Single-viewer Mode**.

### Multi-viewer Mode:

Images are displayed in nine parallaxes created from 3D content, providing an expanded viewing range.

### Single-viewer Mode:

Images are displayed using two parallaxes of 3D content, providing a narrower viewing range.

**NOTE:** The mode switches to **Multi-viewer Mode** during 3D display of 2D content, regardless of the setting.

## Setting the 3D Scene

*You can choose a scene effect (stereoscopic, smooth, etc.) to suit the type of content when viewing 3D images in **Multi-viewer Mode**.*

### NOTE:

- This setting is not available in **Single-viewer Mode**.
- Depending on the content, the effect may be hard to recognise.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **3D Scene**.
- 3 Press ◀▶ to select one of the following scenes.

### Standard:

For normal viewing with a sense of presence

### Nature:

For viewing content that includes slow-moving, dynamic scenes

### Sports:

For viewing content that includes a lot of fast-moving scenes

### Performances:

For viewing content such as a concert or stage performance to be enjoyed at leisure

### Text Overlay:

For viewing subtitled content with clarity and ease

## Setting the 3D PIN code

*A 3D PIN code is necessary for using 3D Safety Settings.*

### To enter a new PIN code:

- 1** In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **3D PIN Setup** and press **OK**.
- 3** Press the number buttons to enter a 4-digit number. Confirm the code.

**NOTE:** PIN code cannot be set to "0000".

### To change or delete your PIN code:

- 1** In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **3D PIN Setup**.
- 3** Press the number buttons to enter your 4-digit PIN code.
- 4** Select **Change PIN** or **Delete PIN** and press **OK**.

**NOTE:**

- PIN code cannot be set to "0000".
- If PIN is deleted, 3D Safety Settings is grayed out, and the settings are reset to the factory default.

## Setting 3D Start Message

*When this feature is set to On, a message is displayed onscreen when a 3D signal is received.*

- 1** In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **3D Safety Settings** and press **OK**.
- 3** Enter your 4-digit 3D PIN code.
- 4** Press ▲ or ▼ to select **3D Start Message**.
- 5** Press ◀ or ▶ to select **On** or **Off**.

## Setting 3D Lock

*When this feature is set to On, you must enter 3D PIN code for changing display mode.*

- 1** In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **3D Safety Settings** and press **OK**.
- 3** Enter your 4-digit 3D PIN code.
- 4** Press ▲ or ▼ to select **3D Lock**.
- 5** Press ◀ or ▶ to select **On**.

## Setting 3D Timer Lock

*When the 3D Timer Lock feature is set to On, neither the PIN input window nor the 3D start message will be shown while the 3D Enable timer is active, even if a switch to 3D Mode occurs. This helps to avoid asking for the 3D Lock PIN and displaying 3D start message every time when switching to 3D.*

- 1** In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **3D Safety Settings** and press **OK**.
- 3** Enter your 4-digit 3D PIN code.
- 4** Press ▲ or ▼ to select **3D Timer Lock**.
- 5** Press ◀ or ▶ to select **On**.

## Setting Enable 3D Timer

*This feature helps to remind you not to watch 3D video for extended periods of time. Once a set period of time has passed, a dialogue will be shown asking you if you wish to continue viewing or not.*

- 1** In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **3D Safety Settings** and press **OK**.
- 3** Enter your 4-digit 3D PIN code.
- 4** Press ▲ or ▼ to select **Enable 3D Timer**.
- 5** Press ◀ or ▶ to select **30, 60, 90, or 120** minutes.
- 6** To cancel the timer, select **Off**.

## Displaying 3D Important Info

- 1 In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **3D Important Info** and press **OK**.

## Adjusting 3D Depth

*You can adjust the level of 3D.*

### From the Menu:

- 1 In the **Preferences** menu, press ▲ or ▼ to select **3D Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **3D Depth** and press **OK**.
- 3 Press ◀ or ▶ to select **1, 2, 3, 4, or 5**.

The higher the number, the stronger the 3D effect.

### From the Quick Menu:

- 1 Press **QUICK** on the remote to open the **Quick Menu**.
- 2 Press ▲ or ▼ to select **3D Depth** and press **OK**.
- 3 Press ◀ or ▶ to select **1, 2, 3, 4, or 5**.

The higher the number, the stronger the 3D effect.

### NOTE:

- Adjustment is not available when the **3D Viewing Mode** is set to **Single-viewer Mode** and 3D content is viewed in 3D mode.
- Depending on the content, setting the 3D effect to a high level may result in blurring of the image contours and background.

## Switching left and right images

*If 3D images look blurred, switch the left and right sides of the 3D image.*

- 1 Press **QUICK** on the remote to open the **Quick Menu**.
- 2 Press ▲ or ▼ to select **3D Settings** and press **OK**.
- 3 Press ▲ or ▼ to select **Left and Right Image**.
- 4 Press ◀ or ▶ to select **Swapped**.

If you experience any abnormal sensation or feel fatigue or nausea when viewing 3D images, stop watching and rest until the symptoms subside. Before viewing again, adjust the 3D effect to a lower number and view at a level at which the symptoms do not occur.

## Sound controls

### Volume controls and sound mute

#### Volume

Press  $\frac{1}{4}$  or  $\frac{1}{2}$  to adjust the volume.

#### Sound Mute

Press  $\times$  once to turn the sound off and again to cancel.

### Dual

If a programme or film is being broadcast with a soundtrack in more than one language, the **Dual** feature allows selection between them.

- 1 Press **MENU** /  $\blacktriangleleft$  to highlight **Setup** icon.
- 2 Press  $\blacktriangle$  /  $\blacktriangleleft$  to highlight **Sound** icon and press **OK**.
- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  to select **Dual** and press  $\blacktriangleleft$  or  $\blacktriangleright$  to choose between **Dual 1** or **Dual 2**.

Sound	
Dual	Dual 1
Balance	0
Advanced Sound Settings	
Dolby Volume	Low
Dynamic Range Control	Off
Audio Level Offset	
Headphone Settings	
Audio Description	

### Balance

- 1 In the **Sound** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Balance** and press  $\blacktriangleleft$  or  $\blacktriangleright$  to emphasize left or right speaker balance.

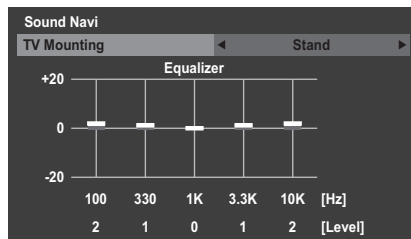
### Sound Navi

You can customize current sound mode settings. Select the appropriate mode in accordance with the installation location of the TV (**Stand** or **Wall**) and adjust the equalizer on-screen as desired.

- 1 In the **Sound** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Advanced Sound Settings** and press **OK**.
- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  to select **Sound Navi** and press **OK**.

Advanced Sound Settings	
Sound Navi	
Surround	Off
Voice Enhancement	On
Dynamic Bass Boost	Low

- 3 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to select either **Stand** or **Wall** depending on how your TV is installed and press the **RED** button.
- 4 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to select the frequency range you want to adjust from the equalizer window and press  $\blacktriangle$  or  $\blacktriangledown$  to adjust the level.



- 5 Repeat step 4 for other frequencies.

### Surround Settings

**Surround, Voice Enhancement, and Dynamic Bass Boost** help to create an enhanced surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

- 1 In the **Sound** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Advanced Sound Settings** and press **OK**.
- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  to select **Surround** and press  $\blacktriangleleft$  or  $\blacktriangleright$  to select **Off**, **Spatial** or **Cinema**.

Advanced Sound Settings	
Sound Navi	
Surround	Off
Voice Enhancement	On
Dynamic Bass Boost	Low

- 3 Press  $\blacktriangledown$  to highlight **Voice Enhancement** and press  $\blacktriangleleft$  or  $\blacktriangleright$  to select **On**.
- 4 Press  $\blacktriangledown$  to highlight **Dynamic Bass Boost** and press  $\blacktriangleleft$  or  $\blacktriangleright$  to select the desired bass expansion level (**Off**, **Low** or **High**).

### Dolby Volume®

This feature provides a consistent sound volume regardless of programmes, channels or input sources.

- 1 In the **Sound** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Dolby Volume**.
- 2 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to select **Low**, **High** or **Off**.

**NOTE:**

- The **Dolby Volume** setting influences the **Dynamic Range Control** and **Digital Audio Output** settings.
- This feature will automatically switch **Off** when **Dynamic Range Control** is set to **On** or **Digital Audio Output** is set to **Auto**.

## Dynamic Range Control

*This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).*

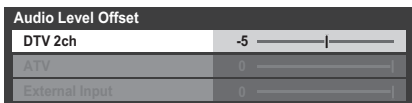
- In the **Sound** menu, press **▲** or **▼** to select **Dynamic Range Control**.
- Press **◀** or **▶** to select **On** or **Off**.

**NOTE:** This feature will automatically switch **Off** when **Dolby Volume** is set to **Low** or **High**.

## Audio Level Offset

*Sometimes there can be large changes in volume when switching from a DTV 5.1ch to a DTV 2ch, an ATV channel, or an external input. Using the **Audio Level Offset** feature reduces these volume differences.*

- Set the volume level usually used when watching a DTV 5.1ch programme.
- Tune to a channel which is DTV 2ch, ATV or an external input.
- In the **Sound** menu, press **▲** or **▼** to select **Audio Level Offset** and press **OK**.
- Press **▲** or **▼** to select an option, and then press **◀** or **▶** to adjust the volume level.

**NOTE:**

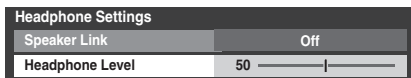
- The available item changes depending on the current input source. For example, while watching a DTV 2ch programme, only **DTV 2ch** is available and the other two items are grayed out in the menu. This allows you to easily adjust according to each condition.
- When watching a DTV 5.1ch programme, this feature is not available.

## Headphone Settings

*This setting is used to set the sound output when headphones are connected.*

Speaker Link	Headphone	Speakers
On	Sound is output (◁ – + is available.)	No sound
Off	Sound is output (Headphone level menu is available.)	Sound is output (◁ – + is available.)

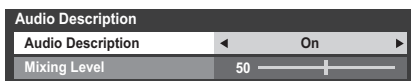
- In the **Sound** menu, press **▲** or **▼** to select **Headphone Settings** and press **OK**.
- Press **▲** or **▼** to select **Speaker Link** and press **◀** or **▶** to select **On** or **Off**.
- If you select **Off**, then highlight **Headphone Level** and use **◀** or **▶** to adjust the headphone sound.



## Audio Description

*Audio Description is an additional narrative sound track for visually impaired individuals to understand and enjoy the story line more fully. The letters AD will be displayed in the channel banner when programmes contain AD content.*

- In the **Sound** menu, select **Audio Description** and press **OK**.
- Press **▲** or **▼** to select **Audio Description** and press **◀** or **▶** to select **On**.



The **AD** button on the Remote can also be used to toggle the **Audio Description** feature between On and Off.

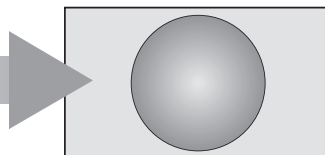
- To adjust the level of the audio description sound to the main sound, highlight **Mixing Level** and press **◀** or **▶**.

## Widescreen viewing

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats.

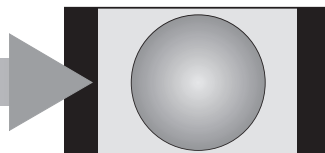
### WIDE

*Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) black bars may be visible on the top and bottom of the screen.*

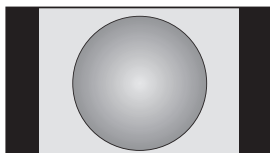


### 4:3

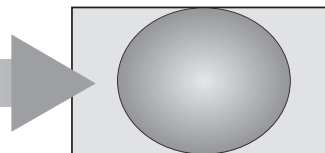
*Use this setting to view a true 4:3 broadcast.*



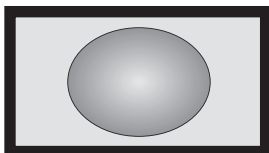
### SUPER LIVE



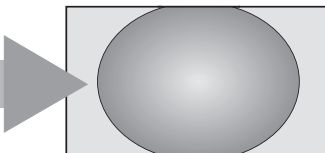
*This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.*



### CINEMA

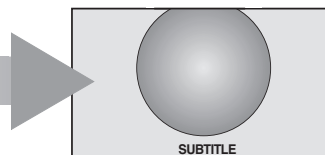


*When watching 'all sides panel format' films/video tapes, this setting will eliminate or reduce the black bars at all sides of the screen by zooming in and selecting the image without distortion.*



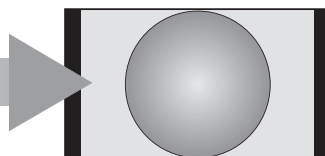
### SUBTITLE

*When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.*



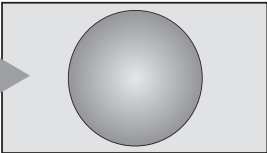
### 14:9

*Use this setting when watching a 14:9 broadcast.*



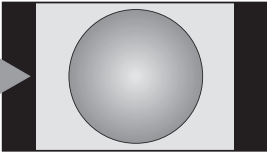
**NATIVE**

*This setting will show the picture without overscan, i.e. WYSIWYG.*



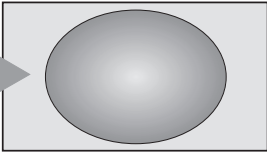
**PC NORMAL**

*This setting will show the picture without overscan, i.e. WYSIWYG. This option is only available when watching a PC signal source via HDMI or PC terminal.*



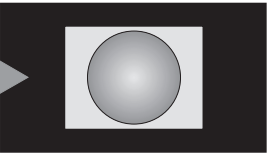
**PC WIDE**

*This setting will show the picture without overscan or side panels. This option is only available when watching a PC signal source via HDMI or PC terminal.*



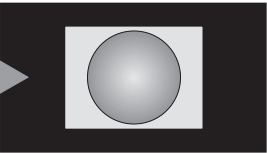
**Quad FHD**


*This setting will show the input signal dot in four dots, two vertical and two horizontal. Depending on the input signal format, the picture is displayed with side panels and/or bars at the top and bottom (e.g. VGA input source).*



**Dot by Dot**

*"Dot by Dot" is a non-scaling display. This setting is for viewing pictures from a USB device using Media Player.*



Press the  button on the Remote to display the list of available widescreen formats.

Press the button repeatedly to highlight the required format.

The **Quick Menu** feature can also be used to select **Picture Size**.

*Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.*

AV format	
Picture Size	
Native	
Wide	
4:3	
Super Live	
Cinema	
Subtitle	
14:9	

PC format	
Picture Size	
Quad FHD	
PC Normal	
PC Wide	

## Picture controls

Most of the picture controls and functions are available in both **digital** and **analogue** modes.  
**PLEASE NOTE:** Features not available will be grayed out.

### Picture Mode

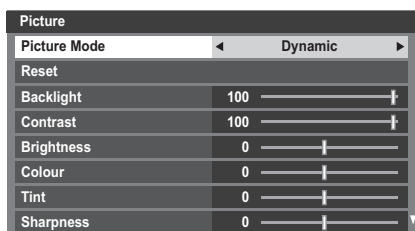
*This television offers the choice of personalising the picture style.*

**AutoView, Dynamic, Standard, Hollywood Night, Hollywood Day, Hollywood Pro, Store, Game and PC** are preset options and affect many features/settings within the television.

#### NOTE:

- Because the **AutoView** mode automatically adjusts picture settings based on ambient light conditions and input signal content, the **Auto Brightness Sensor** and **Expert Mode** menus are grayed out when it is selected.
- Store** mode is only available when **Location** is set to **Store**.
- Game** mode is available in external input mode (other than aerial input). When you select **Game** mode, suitable widescreen formats will be selected.
- PC** mode is available in RGB/PC input mode or HDMI input mode.

- Press **MENU** / ◀▶ to highlight **Setup** icon.
- Press ▲/◀▶ to highlight **Picture** icon and press **OK** to display **Picture** menu.
- Press ▲ or ▼ to select **Picture Mode**.



- Press ◀ or ▶ to select the picture mode you prefer and press **OK**.

#### NOTE:

- The picture mode you select affects the current input only. You can select a different picture mode for each input.
- During 3D display or 2D display of 3D contents, delay of an image may become large and may not be suitable for a game.

### Picture preferences

*You can customize current picture mode settings as desired. For example, while selecting "Dynamic", if you change the following items, such as **Backlight, Contrast, Brightness, Colour, Tint, Sharpness** and the **Advanced Picture Settings** items, your new settings are saved for "Dynamic" picture mode.*

- In the **Picture** menu press ▲ or ▼ to select either **Backlight, Contrast, Brightness, Colour, Tint or Sharpness** and press **OK**.

- Press ◀ or ▶ to adjust the settings.

### Reset

*This feature resets all picture settings to the factory settings except **Picture Mode**.*

- In the **Picture** menu, press ▲ or ▼ to select **Reset** and press **OK**.
- A confirmation message will appear. Press ◀ or ▶ to select **Yes** and press **OK**.

### ColourMaster

*When **ColourMaster** is set to **On**, it allows the 'Base Colour Adjustment' feature to become available.*

- In the **Picture** menu, press ▲ or ▼ to select **Advanced Picture Settings** and press **OK**.
- Press ▲ or ▼ to select **ColourMaster**.



- Press ◀ or ▶ to select **On** or **Off** and press **OK**.

## Base Colour Adjustment

The **Base Colour Adjustment** feature allows the adjustment of individual colours to suit personal preference. This can be useful when using an external source.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Base Colour Adjustment** and press **OK**.
- 2 Press ▲ or ▼ to select an option and press ► to move to the adjustment window.

Base Colour Adjustment				
	Hue	Saturation	Brightness	
<input type="checkbox"/> Red	0	0	0	►
<input type="checkbox"/> Green	0	0	0	
<input type="checkbox"/> Blue	0	0	0	
<input type="checkbox"/> Yellow	0	0	0	
<input type="checkbox"/> Magenta	0	0	0	
<input type="checkbox"/> Cyan	0	0	0	
Reset				

- 3 Press ◀ or ▶ to select **Hue**, **Saturation** or **Brightness** and press ▲ or ▼ to adjust the settings as required.

	Hue	Saturation	Brightness
<input type="checkbox"/> Red	0	0	-1

- 4 Press **BACK** to return to the previous menu.

To return to the factory settings, select **Reset** and press **OK**.

## Colour Temperature

**Colour Temperature** increases the 'warmth' or 'coolness' of the picture by increasing the red or blue tint.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Colour Temperature** and press **OK**.
- 2 Press ◀ or ▶ to adjust the level.

The adjustment range is 0 (warm) to 10 (cool).

**NOTE:** If **Picture Mode** is set to **AutoView**, the adjustment range is -5 to +5.

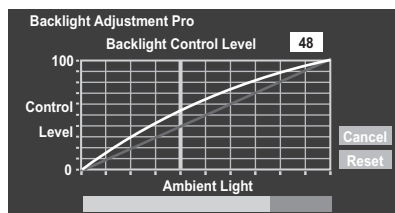
## Auto Brightness Sensor Settings

When the **Auto Brightness Sensor** is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Auto Brightness Sensor Settings** and press **OK**.
- 2 Press ◀ or ▶ to select **On** and press **OK**.

Auto Brightness Sensor Settings		
Auto Brightness Sensor	◀	On ▶
Backlight Adjustment Pro		

- 3 Press ▲ or ▼ to select **Backlight Adjustment Pro** and press **OK**.
- 4 The **Backlight Adjustment Pro** window will appear. Press **OK** again to display the adjustment window.
- 5 Press ◀ or ▶ to select a point and press ▲ or ▼ to adjust the level.



- 6 Press **OK** to fix the adjustment.

To cancel the adjustment when selecting a point, select **Cancel** and press **OK**.

To return the adjustments of all points to the factory defaults, select **Reset** and press **OK**.

## LED Backlight Control

You can adjust the backlighting of the black areas of the image and enhance the contrast.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **LED Backlight Control**.
- 2 Press ◀ or ▶ to select **Low**, **Middle**, **High**, **Auto** or **Off**.

**NOTE:** When **Picture Mode** is set to any mode other than **AutoView**, **Auto** is grayed out.

## Black/White Level

**Black/White Level** increases the strength of dark areas of the picture to improve the definition.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Black/White Level**.
- 2 Press ◀ or ▶ to adjust the level. The effect depends on the broadcast and is most noticeable on dark colours.

## Static Gamma

The **static gamma** feature allows you to adjust the levels of black in the picture.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Static Gamma**.
- 2 Press ◀ or ▶ to adjust the level.

## MPEG NR – Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated. Using the **MPEG NR** feature reduces this effect by smoothing out the edges.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Noise Reduction** and press **OK**.
- 2 Press ▼ to select **MPEG NR**.



- 3 Press ◀ or ▶ to select **Low**, **Middle**, **High** or **Off** to suit your preference.

## DNR – Digital Noise Reduction

**DNR** allows you to 'soften' the screen representation of a weak signal to reduce the noise effect.

- 1 Select **DNR** from the **Noise Reduction** menu.
- 2 Press ◀ or ▶ to select **Low**, **Middle**, **High**, **Auto** or **Off**. The differences may not always be noticeable (for the best result use lower settings as picture quality can be lost if the setting is too high).

## Resolution+

The **Resolution+** feature allows you to adjust the clarity levels for your desired picture settings.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Resolution+** and press **OK**.
- 2 In the **Resolution+** field, select **Auto**.



- 3 Press ▲ or ▼ to highlight **Level** and press ◀ or ▶ to adjust the level.

### NOTE:

- This feature may not work properly depending on the content.
- Adjustable range varies according to the Picture Mode you set.
- Noise may appear in the picture depending on the device connected to the TV (e.g. a device with a specific enhancer function).

## Slant Line Smoother

The **Slant Line Smoother** feature allows you to display slant line more smooth.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Slant Line Smoother** and press **OK**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

**NOTE:** **Off** mode is effective only in the case of HDMI, 1080, Native, and 2D to display original picture without smoothing.

## Active Vision M800

This feature will reduce picture blur without decreasing image brightness or adding flicker.

- 1 In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Active Vision M800**.
- 2 Press ◀ or ▶ to select **Smooth**, **Standard** or **Off**.

**NOTE:** When **Picture Mode** is set to **Game**, this feature will be grayed out and automatically set to **Off**.

## Motion Detection Range

*This feature is to set the range of the adjustment of movement in the double-scan processing. If you feel uncomfortable in motion picture, select **Standard**.*

- 1** In the **Advanced Picture Settings** menu, press **▲** or **▼** to select **Motion Detection Range**.
- 2** Press **◀** or **▶** to select **Wide** or **Standard**.  
  
**Wide**—Double-scan effect for higher-speed motion picture  
**Standard**—Stabilized double-scan effect

**NOTE:** When **Active Vision M800** is set to **Off**, this feature will be grayed out.

## 3D Judder Cancellation

*This feature will reduce 3D images blur without adding flicker.*

- 1** In the **Advanced Picture Settings** menu, press **▲** or **▼** to select **3D Judder Cancellation**.
- 2** Press **◀** or **▶** to select **Auto** or **Off**.

**NOTE:** When **Picture Mode** is set to **Game**, this feature will be grayed out and automatically set to **Off**.

## Resetting the advanced picture settings

*This feature allows you to reset the current **Advanced Picture Settings** to the default values.*

- 1** In the **Advanced Picture Settings** menu, press **▲** or **▼** to select **Reset**.
- 2** Press **OK**.

## Expert Picture Settings

*This feature is available when the Picture Mode option is **Standard**, **Hollywood Day**, **Hollywood Night**, and **Hollywood Pro**.*

### Test Pattern

When the test pattern is on screen, you can navigate in the Picture submenus and adjust picture settings without removing the image.

When you move to a non-Picture menu, or close the menus, regular video will be restored.

- 1** In the **Picture** menu, press **▲** or **▼** to select **Expert Picture Settings** and press **OK** to display **Expert Picture Settings** menu.
- 2** Press **▲** or **▼** to select **Test Pattern**.
- 3** Press **◀** or **▶** to select **On**.

- 4** Press **EXIT** to close.

### RGB Filter

This feature individually enables or disables the red, green, and blue components of the picture to allow for more accurate adjustment of each colour.

- 1** In the **Expert Picture Settings** menu, press **▲** or **▼** to select **RGB Filter** and press **OK**.
- 2** Press **▲** or **▼** to select **Red**, **Green** or **Blue** to adjust.
- 3** Press **◀** or **▶** to select **On**.
- 4** Press **▲** or **▼** to select **Colour** or **Tint** and press **◀** or **▶** to adjust.
- 5** Press **EXIT**.

**NOTE:** It is not possible to turn off all three colours simultaneously.

### Colour Decoding

If you view DVDs with this TV, the Colour Decoding option may be set to ensure the colourimetry reproduction.

**NOTE:** The modes excluding **Auto** (**BT601** and **BT709**) are to convert an irregular signal output from the DVD etc. with incorrect colour to the optimum state. If **BT601** or **BT709** is selected with a normal signal received, the colour may not be correctly displayed. This feature should normally be set to **Auto**.

- 1** In the **Expert Picture Settings** menu, press **▲** or **▼** to select **Colour Decoding**.
- 2** Press **◀** or **▶** to select **Auto**, **BT601** or **BT709**.

### White Balance-Window Display

This feature displays a special Window Pattern to be used when adjusting white balance with a measuring device.

- 1** In the **Expert Picture Settings** menu, press **▲** or **▼** to select **White Balance** and press **OK**.
- 2** Press **▲** or **▼** to select **Window Display** and press **◀** or **▶** to select **On**.
- 3** Press **EXIT** to close.

### White Balance-Setting Type

You can choose from two types of White Balance adjustment.

- 1** In the **Expert Picture Settings** menu, press **▲** or **▼** to select **White Balance** and press **OK**.
- 2** Press **▲** or **▼** to select **Setting Type** and press **◀** or **▶** to select **2P** or **10P**.

## White Balance-2P White Balance

- 1 Press ▼ to select **2P White Balance**.
- 2 Press ▲ or ▼ to select **Red-Offset, Green-Offset, Blue-Offset, Red-Gain, Green-Gain, or Blue-Gain**.
- 3 Press ◀ or ▶ to adjust.

## White Balance-10P White Balance

- 1 Press ▼ to select **10P White Balance**.
- 2 Press ▲ or ▼ to select **IRE, Red, Green, or Blue**.
- 3 Press ◀ or ▶ to adjust.

**NOTE:** The adjustments made for Red / Green / Blue are stored separately for each IRE setting. (There are ten IRE settings from 10 to 100.)

## Colour Calibration

The aim of Colour Calibration is to measure and/or adjust the colour response (White Balance) of your LCD panel. Colour Calibration is used by various fields, such as gaming, photography, engineering, medical and more. In order to calibrate a display correctly, you need a colour analyzer **TPA-1** (not supplied).

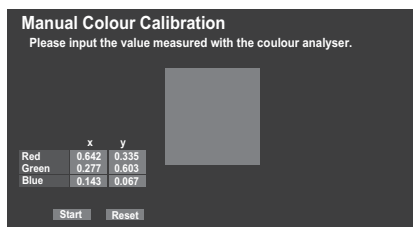
**NOTE:** This feature is available when the Picture Mode option is **Hollywood Pro**.

### Apply Calibration

- 1 In the **Expert Picture Settings** menu, press ▲ or ▼ to select **Colour Calibration** and press **OK**.
- 2 Press ▲ or ▼ to select **Apply Calibration** and press ◀ or ▶ to select **Enabled**.

### Manual Colour Calibration

- 1 In the **Colour Calibration** menu, press ▲ or ▼ to select **Manual Colour Calibration** and press **OK**.



- 2 Place the probe of the colour analyzer over the square on screen to measure.

- 3 Input the value measured with the colour analyzer using the number buttons (0-9).

	x	y
Red	0.642	0.335
Green	0.277	0.603
Blue	0.143	0.067

- 4 Press ▲▼◀▶ and input the values to fill all RGBxy matrix table.

- 5 Highlight **Start** and press **OK**.

Please wait until you see "Manual Colour Calibration has been completed." on screen.

### To return to factory setting

- 1 Highlight **Reset** and press **OK**.

### Auto Colour Calibration

- 1 In the **Colour Calibration** menu, press ▲ or ▼ to select **Auto Colour Calibration** and press **OK**.
- 2 Connect the USB colour analyzer to the USB 1 or USB 2 port.
- 3 Place the probe of the USB colour analyzer over the square on screen and press **OK**.

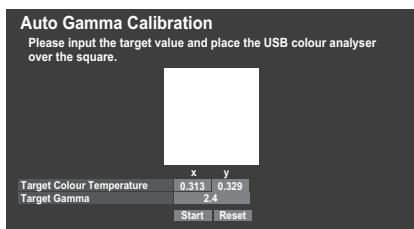
**Auto Colour Calibration** will start.

Please wait until you see "Auto Colour Calibration has been completed.".

### Gamma Calibration

- 1 In the **Expert Picture Settings** menu, press ▲ or ▼ to select **Gamma Calibration** and press **OK**.
- 2 Press ▲ or ▼ to select **Apply Calibration** and press ◀ or ▶ to select **Enabled**.
- 3 Press ▲ or ▼ to select **Auto Gamma Calibration** and press **OK**.
- 4 Connect the USB colour analyzer to the USB 1 or USB 2 port.

- 5** Input the target value and place the USB colour analyzer over the square on screen.



- 6** Highlight **Start** and press **OK**.  
Auto Gamma Calibration will start.  
Please wait until you see "Auto Gamma Calibration has been completed." on screen.

#### To return to factory setting

- 1** Highlight **Reset** and press **OK**.

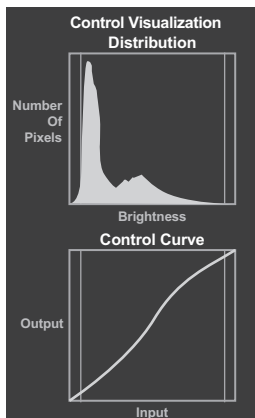
#### Resetting to the factory defaults

- 1** In the **Expert Picture Settings** menu, press **▲** or **▼** to select **Reset** and press **OK**.  
A confirmation screen appears.
- 2** Select **Yes** and press **OK**.

### Control Visualization

*This feature displays the brightness histogram and control curve of the current video signal.*

- 1** In the **Picture** menu, press **▲** or **▼** to select **Control Visualization** and press **OK**. The histogram window will appear.

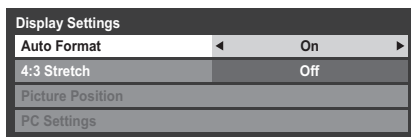


- 2** Press **BACK** to return to the previous menu.

### Automatic Format (Widescreen)

*When this television receives a true Widescreen picture and **Auto format** is **On**, it will automatically be displayed in Widescreen format irrespective of the television's previous setting.*

- 1** Press **MENU** / **◀▶** to highlight **Setup** icon.
- 2** Press **▲** / **◀▶** to highlight **Preferences** icon and press **OK**.
- 3** Press **▲** or **▼** to select **Display Settings** and press **OK**.
- 4** Press **▲** or **▼** to select **Auto Format** and press **◀▶** to select **On** or **Off**.



### 4:3 Stretch

*When **4:3 Stretch** is activated, the size switching system changes 4:3 programmes into full screen picture.*

- 1** In the **Preferences** menu, press **▲** or **▼** to select **Display Settings** and press **OK**.
- 2** Press **▲** or **▼** to select **4:3 Stretch** and press **◀▶** to select **On** or **Off**.

### Blue Screen

*When **Blue Screen** is selected, the screen will turn blue and the sound will be muted on analogue channels and external input modes when no signal is received.*

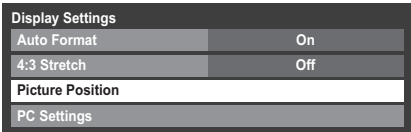
**NOTE:** Some external input sounds may not be muted.

- 1** In the **Preferences** menu, press **▲** or **▼** to select **Blue Screen**.
- 2** Press **◀▶** to select **On** or **Off**.

Picture Position

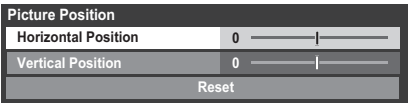
The picture position may be adjusted to suit personal preference and can be particularly useful for external inputs.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Display Settings** and press **OK**.
- 2 In the **Display Settings** menu, press ▲ or ▼ to select **Picture Position**.



- 3 Press **OK** to view the options available for the picture format that has been selected.
- 4 Press ▲ or ▼ to select an option and press ◀ or ▶ to adjust the settings.

The options differ depending on the currently selected widescreen format and the input signal.



To return to the original factory settings, select **Reset** in the **Picture Position** menu and press **OK**.

Picture still

This feature is used to hold a still image on the screen.

- 1 Press ▼ to hold an image on the screen, and press ▼ again to cancel.

HDMI Information Display

When the *HDMI Information Display* feature is On and you are watching an HDMI input source, pressing the **i+** button displays the HDMI signal information banner.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **HDMI Information Display**.
- 2 Press ◀ or ▶ to select **On**.

HDMI signal information is as follows:  
Resolution, Scan Type, Frame Rate\*, Aspect, Bit Depth, Colour Space, RGB/YUV, Chroma Format, and Content Type (if available).

\* If the HDMI input source is interlaced, “**Field Rate**” will be displayed instead of “**Frame Rate**”.

## Wireless LAN Information

Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off either your Bluetooth™ or Wireless LAN device.

Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

### Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

### When using the TV under wireless LAN environment:

- The function of all IEEE802.11 is not supported.
- The ad-hoc mode is not supported.
- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate for streaming video content is 20 Mbps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by various surrounding interference.

### Europe Statement

This built-in WLAN Module may be operated in below country:

<b>AT</b>	Austria	<b>IS</b>	Iceland
<b>BE</b>	Belgium	<b>LI</b>	Liechtenstein
<b>CH</b>	Switzerland	<b>LT</b>	Lithuania
<b>CY</b>	Cyprus	<b>LU</b>	Luxembourg
<b>CZ</b>	Czech Republic	<b>LV</b>	Latvia
<b>DE</b>	Germany	<b>MT</b>	Malta
<b>DK</b>	Denmark	<b>NL</b>	Netherlands
<b>ES</b>	Spain	<b>NO</b>	Norway
<b>FI</b>	Finland	<b>PL</b>	Poland
<b>FR</b>	France	<b>PT</b>	Portugal
<b>GB</b>	United Kingdom	<b>SE</b>	Sweden
<b>GR</b>	Greece	<b>SI</b>	Slovenia
<b>EE</b>	Estonia	<b>SK</b>	Slovakia
<b>HU</b>	Hungary	<b>BG</b>	Bulgaria
<b>IT</b>	Italy	<b>RO</b>	Romania
<b>IE</b>	Ireland	<b>TR</b>	Turkey

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.



### Ukraine Statement

Contains approved built-in WLAN Module, model name: WLU5060-D4 (ROHS), approved by CB "UkrCERTADIO".

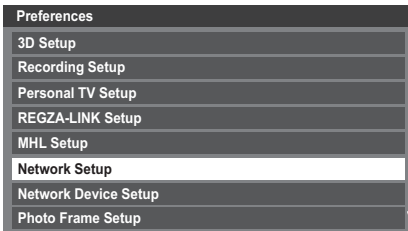


0 2 5

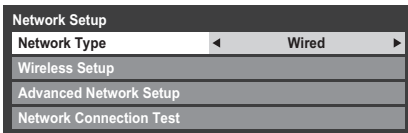
## Setting up the Network

You can select the Network Type.

- 1 Press **MENU** / ◀▶ to highlight **Setup** icon.
- 2 Press ▲/◀▶ to highlight **Preferences** icon and press **OK**.
- 3 Press ▲ or ▼ to select **Network Setup** and press **OK**.



- 4 Press ▲ or ▼ to select **Network Type** and press ◀ or ▶ to select **Wired** or **Wireless**.



- 5 If you selected **Wired**, see "Advanced Network Setup" on page 49.

### Wireless Setup

**NOTE:** Continued connection of AP (Access Point) is not guaranteed. The connection may be disconnected while watching TV.

**There are 3 methods for Wireless Setup:**

#### Easy Setup (WPS)

If the AP supports WPS, this method can be used.

- WPS is an industry standard designed to make connection of wireless LAN equipment and security setup easy. WPS will automatically configure all wireless settings.

**NOTE:** WEP encryption may not be able to configured by easy setup.

#### Assisted Setup (setup by using the AP's notification information)

Network Name, Authentication, and Encryption are decided based on information from the AP. You will manually set the Security Key.

**Manual Setup (manual input of all settings)**

### Easy Setup using PBC (Push Button Configuration)

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **Wireless Setup** and press **OK**.
- 3 Press ▲ or ▼ to select **Easy Setup** and press **OK**.



- 4 Press ◀ or ▶ to select **PBC**.
- 5 Press ▼ to highlight **Start Scan** and press **OK**.
- 6 Following the on-screen instructions, push the appropriate button on your AP.
- 7 When a window reporting that the setup is complete appears, press **OK**.

#### To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear, and then press ◀ or ▶ to select **Yes** and press **OK**.

### Easy Setup using PIN (Personal Identification Number)

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **Wireless Setup** and press **OK**.
- 3 Press ▲ or ▼ to select **Easy Setup** and press **OK**.
- 4 Press ◀ or ▶ to select **PIN**.
- 5 Press ▼ to select **Start Scan** and press **OK**.
- 6 Press ▲ or ▼ to select the desired AP and press **OK**.

**NOTE:** Check the Network Name and/or MAC address on the label of the AP or in the manual, and select your AP.

- 7 When the PIN code window appears, enter the displayed PIN into your AP, and then press **Next** to continue the PIN Setup. When a message displays to report that the setup is complete, press **OK**.

### To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear; then, press ◀ or ▶ to select **Yes** and press **OK**.

### Assisted Setup

- 1** In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **Wireless Setup** and press **OK**.
- 3** Press ▲ or ▼ to select **Assisted Setup** and press **OK**.
- 4** Press ▲ or ▼ to select the desired AP and press **OK**.  
**NOTE:** Check the MAC address on the label of the AP or in the manual, and select your AP.
- 5** Highlight **Security Key** and press **OK**. The Software Keyboard window will appear.

- 6** Input the Security Key by using the Software Keyboard (see page 51). To save your setting, press the **BLUE** button.

#### NOTE:

- The Security Key must adhere to these conditions:
  - TKIP/AES: 8-63 ASCII or 64 Hex characters
  - WEP: 5 or 13 ASCII or 10 or 26 Hex characters
- There is only one key ID to set for WEP encryption.

- 7** Highlight **Done** and press **OK**.

**NOTE:** If **Network Name** is not displayed, see step 4 and 5 in **Manual Setup** below to set **Network Name** before pressing **Done**.

**NOTE:** Settings are not saved if **BACK** is pressed before **Done** is selected.

### Manual Setup

- 1** In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **Wireless Setup** and press **OK**.
- 3** Press ▲ or ▼ to select **Manual Setup** and press **OK**.
- 4** Press ▲ or ▼ to select **Network Name** and press **OK**. The Software Keyboard window will appear.
- 5** Input the Network Name by using the Software Keyboard (see page 51). To save your setting, press the **BLUE** button.

- 6** Press ▲ or ▼ to select **Authentication** and press ◀ or ▶ to select **Open System**, **Shared Key**, **WPA-PSK** or **WPA2-PSK**.

- 7** Press ▲ or ▼ to select **Encryption** and press ◀ or ▶ to select **None**, **WEP**, **TKIP** or **AES**.

#### NOTE:

- Certain encryption types are only compatible with specific authentication types.
  - When Authentication is Open System, only WEP or None is compatible.
  - When Authentication is Shared Key, only WEP is compatible.
  - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.

- 8** Press ▲ or ▼ to select **Security Key** and press **OK**.

- 9** Input the Security Key by using the Software Keyboard (see page 51). To save your setting, press the **BLUE** button.

**NOTE:** This item is grayed out when **Encryption** is **None**.

- 10** Highlight **Done** and press **OK**.

**NOTE:** When **Encryption** is **None**, a message will appear. Press ◀ or ▶ to select **Yes** and press **OK**.

**NOTE:** Settings are not saved if **BACK** is pressed before **Done** is selected.

### Enhanced 11n

When **Enhanced 11n** is set to **On**, the Dual Channel (40MHz) feature is available.

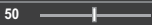
**NOTE:** In addition, some other optional 11n features will be enabled.

- 1** In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**. Highlight **Wireless Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **Enhanced 11n** and press ◀ or ▶ to select **On**.

## Wireless Information

The settings configured in Wireless Setup can be confirmed.

- 1 Press **QUICK** to open the **Quick Menu**.
- 2 Press **▲** or **▼** to select **Wireless Information** and press **OK**.

Quick Menu	
Picture Mode	AutoView
Picture Size	Super Live
3D Settings	
3D Viewing Position Test	
Personal Mode	
More Information	
Channel Options	
Sleep Timer	00:00
REGZA-LINK Device Control	
Speakers	TV Speakers
Headphone Level	50 
Wireless Information	
Recording Information	

- 3 When the **Network Type** is **Wireless**, a Wireless Information window will appear.

**NOTE:** Press the **RED** button to scan for all APs.

Item	Description
Status	<b>Connected</b> is displayed when the TV is connected with the AP. <b>Disconnected</b> is displayed when the TV is not connected with the AP.
Signal	Connection signal strength with AP ( <b>STRONG/MEDIUM/WEAK</b> )
Speed	Link with AP
Mode	Working mode (11a, 11b, 11g, 11n)
Channel	Channel in use (1-165)
Network Name	SSID set
Authentication	Authentication set
Encryption	Encryption set
Security Key	Security Key set
AP MAC Address	The AP's MAC address is displayed when the TV is connected with the AP.
TV MAC Address	The MAC address of the TV is displayed.
DHCP	<b>Enabled</b> is displayed when using DHCP. <b>Disabled</b> is displayed when not using DHCP.
IP Address	The TV's IP address
Subnet Mask	Value of the Subnet Mask
Default Gateway	Address of the Default GATEWAY
DNS	Address of the DNS

**NOTE:** Even if an AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES** (see "Manual Setup" on page 48).

### Notes on wireless LAN environment:

- The function of all IEEE802.11 is not supported.
- The ad-hoc mode is not supported.
- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate for streaming video content is 20 Mbps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by various surrounding interference.

## Advanced Network Setup

### NOTE:

- When the DHCP function of the router connected with this TV is On, you can set **Auto Setup** to **On** or **Off**. (This should usually be set to **On**.)
- When the DHCP function of the router is Off, set **Auto Setup** to **Off**, and set the IP Address manually.

## IP Address Setup

### Auto Setup:

- 1 In the **Preferences** menu, press **▲** or **▼** to select **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to select **Advanced Network Setup** and press **OK**.

Network Setup	
Network Type	Wired
Wireless Setup	
Advanced Network Setup	
Network Connection Test	

- 3 Press **▲** or **▼** to select **IP Address Setup** and press **OK**.

Advanced Network Setup	
IP Address Setup	
DNS Setup	
MAC Address	

- 4** Highlight **Auto Setup** and press ◀ or ▶ to select **On**.

IP Address Setup	
Auto Setup	◀ On ▶
IP Address	XXX . XXX . XXX . XXX
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	

**NOTE:** Other items will be grayed out when **Auto Setup** is set to **On**.

### Manual Setup:

- 1** In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **Advanced Network Setup** and press **OK**.
- 3** Press ▲ or ▼ to select **IP Address Setup** and press **OK**.
- 4** Highlight **Auto Setup** and press ◀ or ▶ to select **Off**.

IP Address Setup	
Auto Setup	◀ Off ▶
IP Address	XXX . XXX . XXX . XXX
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	

- 5** Press ▲ or ▼ to select **IP Address**.
- 6** Press ◀ or ▶ to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press **OK**.

**NOTE:** IP address field numbers must be between 0 and 255. After each field number has been set, press **OK** to store the entire address. If the entire IP Address is invalid, a warning message will appear after **OK** is pressed.

- 7** Press ▲ or ▼ to select **Subnet Mask**, and edit in the same way as IP Address.

IP Address Setup	
Auto Setup	Off
IP Address	XXX . XXX . XXX . XXX
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	

- 8** Press ▲ or ▼ to select **Default Gateway**, and edit in the same way as IP Address.

**NOTE:** If you manually set the IP address, you must not use the same IP address for any other device. The IP address you use should be a private address.

## DNS Setup

**NOTE:** When the DHCP function of the router connected to this TV is Off, set Auto Setup to Off, and manually set the DNS address(es). Your internet service provider should have provided these to you.

### Auto setup:

- 1** In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **Advanced Network Setup** and press **OK**.
- 3** Press ▲ or ▼ to select **DNS Setup** and press **OK**.
- 4** Press ▲ or ▼ to highlight **Auto Setup** and press ◀ or ▶ to select **On**.

**NOTE:** Other items will be grayed out when **Auto Setup** is set to **On**.

### Manual setup:

- 1** In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2** Press ▲ or ▼ to select **Advanced Network Setup** and press **OK**.
- 3** Press ▲ or ▼ to select **DNS Setup** and press **OK**.
- 4** Press ▲ or ▼ to select **Auto Setup** and press ◀ or ▶ to select **Off**.

DNS Setup	
Auto Setup	◀ Off ▶
Primary DNS Address	XXX . XXX . XXX . XXX
Secondary DNS Address	255 . 255 . 255 . 0

- 5** Press ▲ or ▼ to select **Primary DNS Address**.
- 6** Press ◀ or ▶ to highlight the field you want to change, and then use the number buttons to input the Primary DNS Address. To save the setting, press **OK**.

**NOTE:** DNS address field numbers must be between 0 and 255. If you input an incompatible number and press **OK**, the field number will reset to the previous value.

- 7** Press ▲ or ▼ to select **Secondary DNS Address**, and edit in the same way as Primary DNS Address.

MAC Address

You can view the fixed MAC address for the TV.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **Advanced Network Setup** and press **OK**.
- 3 Press ▲ or ▼ to select **MAC Address** and press **OK**.

Network Connection Test

*This function checks the Internet connectivity.*

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **Network Connection Test** and press **OK**.

A message will appear to indicate if the connection was successful or if it could not be completed.

**NOTE:** The result of Network Connection Test does not always guarantee the connection. Depending on the situation, YouTube may not be able to be used.

To cancel the Network Connection Test:

Press **BACK** while searching for the Internet connection.

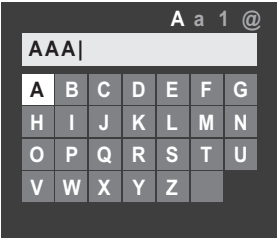
Using the software keyboard

You can enter text by using the Software Keyboard. The Software Keyboard window will appear when you press **OK** on a field that accepts character input.

To enter text using the software keyboard:

- 1 Highlight the desired character on the on-screen software keyboard.
- 2 Press **OK**.
- 3 Repeat steps 1 and 2 until you have entered all desired text.
- 4 Press the **BLUE** button to close the software keyboard and return to the previous screen.

**NOTE:** If **BACK** is pressed, changes are not saved and the software keyboard window is closed. The text will remain as it was before starting the keyboard.



Input operation on the remote control:

Button	Description
<b>OK</b>	Inputs the selected character.
<b>0-9</b>	Inputs the number directly.
<b>▲ ▼ ◀ ▶</b>	Moves the character highlight.
<b>◀ ▶ ▶ ▶</b>	Moves the cursor.
<b>◀◀</b>	Moves the cursor to the head of a character string.
<b>▶▶</b>	Moves the cursor to the end of a character string.
<b>RED</b>	Deletes 1 character to the left of the cursor.
<b>GREEN</b>	Cycles through upper case, lower case, numbers, and symbols, if available.
<b>YELLOW</b>	Chooses an accented version of the current letter, if applicable.
<b>BLUE</b>	Saves changes and closes the Software Keyboard window.
<b>BACK</b>	Closes the Software Keyboard window without saving changes.

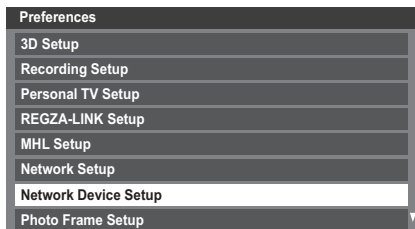
# Network Device Setup

## External Control Setup

*This setup allows you to operate a home network-connected your TV from an external device.*

### Media Controller Setup

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.



- 2 Press ▲ or ▼ to select **External Control Setup** and press **OK**.

- 3 Press ▲ or ▼ to select an option and press **OK**.

The Software Keyboard window will appear.

**User Name** — Input the User Name (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 51). The maximum number of characters is 16.

**Password** — Input the Password (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 51). The maximum number of characters is 16.

**NOTE:** Toshiba does not guarantee normal operation with all connected devices.

## Media Renderer Setup

### Terminology:

DMS: DLNA CERTIFIED™ Server

DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED™ Controller

The TV can be configured as a DMR. When operating as a DMR, the TV displays content provided by a DMS. The selection of the media is done by the DMC - the TV does not select the input. The TV can play photo, movie, or audio files when operating as a DMR.

### Media Renderer

- 1 In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.
- 2 Press ▲ or ▼ to select **Media Renderer Setup** and press **OK**.
- 3 Press ▲ or ▼ to select **Media Renderer**, and then press ◀ or ▶ to select **On** or **Off**.

### Media Controller Setup

You can limit which DMC can control this TV. If Access Control is enabled, only those DMCs with a check will be allowed to control the TV.

- 1 In the **Media Renderer Setup** menu, press ▲ or ▼ to select **Media Controller Setup** and press **OK**.
  - 2 Press ▲ or ▼ to select **Access Control** and press ◀ or ▶ to select **On**.
  - 3 Press ▲ or ▼ to select **Select Media Controller** and press **OK**.
  - 4 Press ▲ or ▼ to highlight the item you want to select and press **OK**. A check will appear in the box.
- To remove the check, press **OK** again.
- 5 Press ▶ to highlight **Done** and press **OK**.

#### NOTE:

- You can select up to 8 DMC devices.
- If you would not like to limit the DMCs for this TV, set **Access Control** to **Off**.
- Devices other than DMCs may be displayed in the list. Confirm the MAC address of the DMC and set it.

### Maximum Volume Setup

This feature allows you to set the maximum volume of the TV when it receives volume operation commands from a DMC.

- 1 In the **Media Renderer Setup** menu, press ▲ or ▼ to select **Maximum Volume Setup**, and press ◀ or ▶ to adjust to the desired volume.

#### NOTE:

- The TV's remote control can set volume regardless of the value of **Maximum Volume Setup**.
- When DMR playback ends, the TV volume will return to the value in effect when DMR playback was started.

## Power Control Mode

When the TV is connected to the home network via Wireless LAN, Wake-on-LAN can be received from an external device connected to the home network to turn on the TV.

- 1** In the **Preferences** menu, press **▲** or **▼** to select **Network Device Setup** and press **OK**.
- 2** Press **▲** or **▼** to select **Power Control Mode** and press **◀** or **▶** to select **On** or **Off**.

### NOTE:

- When **Wired** is selected for the **Network type** in **Network Setup**, this feature will be grayed out.
- Depending on the device connected to the home network, it may take a while for the TV to turn on.
- Depending on the device connected to the home network, this feature may not work.
- If the unencrypted Wireless Setup is done, this feature can not be used.

## Device Name Setup

The TV's DMR device name can be changed. The device name can be confirmed from the DMC.

- 1** In the **Preferences** menu, press **▲** or **▼** to select **Network Device Setup** and press **OK**.
  - 2** Press **▲** or **▼** to highlight **Device Name Setup** and press **OK**.
  - 3** Highlight the **Device Name** field and press **OK**. The Software Keyboard window will appear.
  - 4** Input the Device Name by using the software keyboard (see page 51). Press the **BLUE** button.
- NOTE:** The Device Name can be up to 15 characters long.
- 5** Highlight **Done** and press **OK** to save your setting.

## Using the USB HDD Function

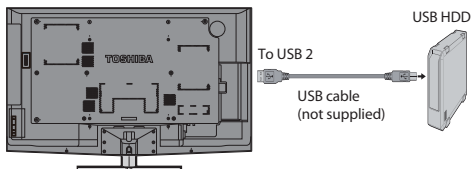
The USB HDD function can be used to record and view digital broadcast programmes. Read the precautions below before recording or viewing programmes using the USB HDD function.

### NOTE:

- Recorded programmes saved on the USB HDD can only be viewed on this TV. They cannot be viewed when connected to another TV (including the same model of TV), a PC, or other device.
- You cannot watch one channel while recording another.
- If the recording time to the USB HDD is too short, no data may be saved.
- You cannot record video input signals on the USB HDD.
- Not all types of broadcast may be recordable.
- After programming the TV to record digital broadcasting, do not disconnect the power plug before recording starts. Also, leaving the power switch **"ON"** until recording is scheduled to start, may cause the recording to fail.
- Should video or audio recording fail due to malfunction of the TV or poor reception, no compensation shall be paid.
- You can reserve up to a total of 64 programmes for recording and viewing.
- If there is a power failure or the power plug is disconnected during programmed recording, recording will stop and will not resume when the power returns or the plug is reconnected.
- Do not disconnect the power plug when the indicator lamp is lit.
- Any changes implemented by the broadcasting station may affect programme scheduling.
- Scheduling of multiple consecutive programmes may result in the beginning of each programme not being recorded.
- When the **"Programme Tracking"** for programmed recording is set to **"On"** and the broadcast time of the scheduled programme overlaps with the start time of timer viewing due to delay, extension, or other causes, timer viewing will be cancelled.
- Depending on the situation at the time, not all items can be set or changed. ("X" indicates no setting.)
- Programmed recording cannot take place if the power plug is not connected.
- Disconnecting the power plug during recording may result in failure to save the recorded programme.
- Changing the **USB 2 Port Setup** to **Media Player** will invalidate all previously made programmed recordings (see page 68).

## Setting up the USB HDD

### To connect a USB HDD (not supplied)



**NOTE:** For available USB HDD information, see “Support Information” on the website.

### To register a USB HDD

When you connect a new USB HDD to the USB port on the TV, the following screen will appear.

An unregistered USB HDD has been detected.  
Register the USB HDD?

◀ No ▶

- 1 Press ◀ or ▶ to select **Yes** and press **OK**.

The formatting confirmation window will appear.

- 2 Press ◀ or ▶ to select **Yes** and press **OK**.

Registration will start.

- 3 If you want to name the USB HDD, press ◀ or ▶ to select **Yes** and press **OK**.

See page 51 to input characters.

The maximum number of characters is 10.

If you prefer the default name “USB HDD X,” select **No** and press **OK**.

- 4 The Device List will appear.

Device List		
Device Name	Registered	Connected
USB HDD 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
USB HDD 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
USB HDD 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

You can now use registered USB HDDs.

While in the list mode, the following key operations are available:

**OK** button ..... To register/remove  
**RED** button ..... To disconnect  
**GREEN** button ..... To change Device Name  
**YELLOW** button ..... To test  
**BLUE** button ..... To format

#### NOTE:

- To disconnect a USB HDD from the TV, follow the procedures for “To disconnect a USB HDD” section (page 61).
- Connect the USB HDD to the USB 2 port. Recording and playback cannot be performed if connected to the USB 1 port.
- Up to 8 USB HDDs can be registered to this TV.
- Recorded programmes saved on the USB HDD can only be viewed on this TV. They cannot be viewed when connected to another TV (including the same model of TV), a PC, or other device.
- If an HDD is re-registered, it will not be formatted.
- When the USB HDD is formatted, all the data stored on the HDD will be deleted.

## To record DTV programmes (One Touch Recording)

You can easily record the programme currently being viewed.

- 1 Press the **● REC** button on the remote control.

Recording for the currently viewing programmes will start.

The programme indicator (red) will be lit.

### To stop recording

- 1 Press the **■ (stop)** button.

A confirmation window "Do you want to stop Recording" will appear.

- 2 Press **◀** or **▶** to select **Yes** and press **OK**.

Recording will stop.

## To schedule programmed recording

*Programmed recording can be scheduled easily using the Programme Guide or by specifying the date and time.*

### PLEASE NOTE:

When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled.

It will only be possible to create or edit programme timers for the currently tuned DTV input.

### To schedule programmed recording using the Programme Guide

- 1 Press the **GUIDE** button on the remote control (or select **TV Programmes / Guide** menu from the menu system) to display the EPG screen.
- 2 Press **▲▼◀▶** to highlight the programme you want to record.

- 3 Press **OK**. The **Set Timer** menu will appear.



- 4 Press **▲** or **▼** to highlight **Timer Type** and press **◀** or **▶** to select **Recording**.
- 5 Press **▲** or **▼** to highlight **Recording Device** and press **◀** or **▶** to select the connected USB HDD.
- 6 Press **▲** and **▼** to go through the list adding the details of the programme by using the number buttons and **◀** and **▶** to make selections.

### Programme Tracking:

If information concerning programme delay is sent from the broadcasting station, Programme Tracking will link recording with a delay of up to three hours. Programme Tracking is enabled when **On** is selected. (It does not support advancing of the broadcast time.)

### Protect:

Select this function when you want to protect a recorded programme. When **On** is selected, the programme will be protected. You can protect and unprotect recorded programmes afterwards.

### Personal Grouping:

Setting Personal Mode for a programme when it is recorded makes it easier to find later for viewing. Select your preferred **Personal Mode**. If you select **None**, the programme will be grouped by **All** in **Library**.

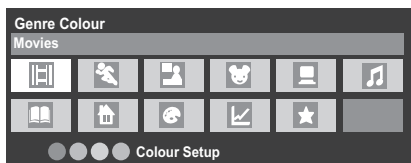
**NOTE:** To change the set **Start Time** or **End Time**, select **Change Time** and press **OK**. Change the **Start Time** or **End Time** from the displayed **Set Timer** screen.

- 7 Press **▲** or **▼** to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

## To search for and schedule a programme you want to record using Genre Search

- 1 In the Guide screen, press **QUICK**.
- 2 Press **▲** or **▼** to highlight **Genre Colour** in the **Quick Menu** and press **OK**.

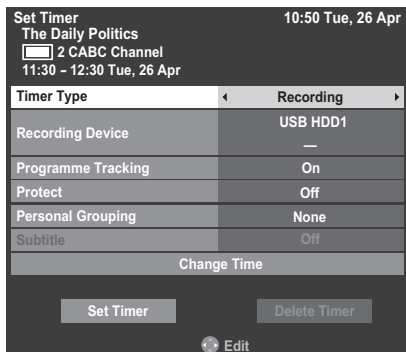


- 3 With the focus on a particular genre, press the desired coloured button to assign. Four colours will be available to set. Press **BACK** to go back to the Guide screen.
- 4 Press the **YELLOW** button to access the **Genre Search** screen.

Genre Search			10:50 Tue, 6 Apr
Movies			
34 AB1	Hard Rain	Wed,27 Apr 0:15-1:45	
31 PARIS PREMIERE	Red Corner	Wed,27 Apr 22:15-23:55	
11 NT1	The Lawnmower Man	Thu,28 Apr 1:20-3:00	
9 W9	A Vow to Kill	Fri,29 Apr 1:30-3:00	
34 AB1	Parenthood	Sat,30 Apr 0:45-2:40	
11 NT1	Body and Soul	Sat,30 Apr 1:15-3:00	
31 PARIS PREMIERE	The Nun's Story	Sat,30 Apr 15:00-17:30	
9 W9	Red Corner	Sat,30 Apr 23:20-1:15	
11 NT1	The Real Blonde	Sun,1 May 0:40-2:00	
31 PARIS PREMIERE	Critters	Sun,1 May 0:40-2:20	
11 NT1	Indiana Jones and the Temple of Doom	Sun,1 May 21:10-23:20	
11 NT1	The Jackal	Sun,1 May 23:20-1:15	
34 AB	Coup De Ville	Mon,1 May 1:10-3:00	

- 5 Press **◀** or **▶** to select the genre. Programmes listed will change for the new genre. Press **▲** or **▼** to select the programme for which you want to schedule recording.

- 6 Press **OK**. The **Set Timer** menu will appear.



- 7 Press **▲** or **▼** to highlight **Timer Type** and press **◀** or **▶** to select **Recording**.
- 8 Press **▲** or **▼** to highlight **Recording Device** and press **◀** or **▶** to select the connected USB HDD.
- 9 Press **▲** and **▼** to go through the list adding the details of the programme by using the number buttons and **◀** and **▶** to make selections.
- 10 Press **▲** or **▼** to highlight **Set Timer** and press **OK**.

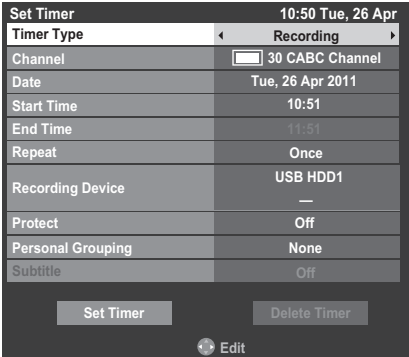
The **ORANGE LED** will be lit.

To programme the timer

- 1

Press **MENU** / ◀▶ / ▲ / ▶ to highlight **TV Programmed / Programme Timers** icons and press **OK**.
- 2

Select the unprogrammed column (blank column) and press **OK**.  
The **Set Timer** menu will appear.



- 3

Press ▲ or ▼ to highlight **Timer Type** and press ◀ or ▶ to select **Recording**.
- 4

Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

**Channel:**  
Select the channel for programmed recording.

**Date:**  
Select the date for programmed recording.

**Start Time:**  
Select the time to start recording.

**End Time:**  
Select the time to end recording.

**Repeat:**  
Select **"Once"**, **"Daily"** or **"Weekly"**.

<b>Once</b>	The selected content is recorded once.
<b>Daily</b>	The same time slot on the same channel is recorded every day on and after the selected day.
<b>Weekly</b>	The same time slot on the same channel on the same day of the week is recorded on and after the selected day.

**Recording Device:**  
Select the connected USB HDD.

**Protect:**  
Select this function when you want to protect a recorded programme. When **On** is selected, the programme will be protected.  
You can protect and unprotect recorded programmes afterwards.

**Personal Grouping:**  
Select a Personal Mode for the programme to be recorded to make it easier to find later for viewing. Select your preferred Personal Mode. If you select **None**, the programme will be recorded to **All** in **Library**.

**Subtitle:**  
Select **On** when you want subtitles to be included in the recording.

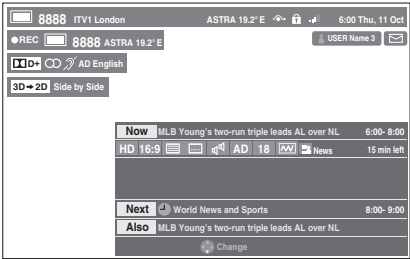
- 5

Press ▲ or ▼ to highlight **Set Timer** and press **OK**.  
The **ORANGE LED** will be lit.

To schedule a programme using the information screen

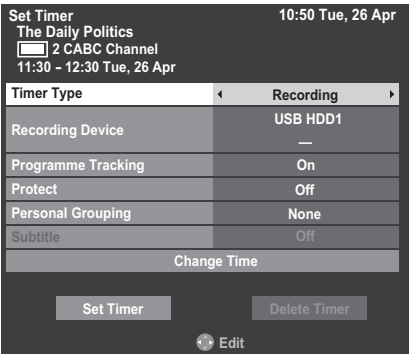
- 1

Press **i+**, the information screen will appear giving details of the channel and programme currently being viewed.



- 2

Press ▲ or ▼ to select the **Next** and press **OK**. The **Set Timer** menu will appear.



**3** Press ▲ or ▼ to highlight **Timer Type** and press ◀ or ▶ to select **Recording**.

**4** Press ▲ or ▼ to highlight Recording Device and press ◀ or ▶ to select the connected USB HDD.

**5** Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Refer to step 6 on page 55 for details.

**6** Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

## To check, edit or delete scheduling information

*You can check, edit or delete scheduling information.*

**1** Press **MENU** / ◀▶ / ▲ / ◀▶ to highlight **TV Programmes / Programme Timer** icons and press **OK**. **Programme Timer** screen will appear.

### Recording List:

- Depending on the transmitter information, the programme broadcast time or other information may not be correctly displayed in the recording list.
- The programme does not appear in the recording list immediately at the start of recording, but appears a few minutes after recording starts.
- Up to 500 programmes can be displayed in the recording list.
- If the channel settings are changed, the digital channel number, or other information may not appear correctly in the recording list.
- As the displayed programme time is calculated from the actual recording information, it may not match the recording time on the USB HDD.

## To check a schedule

**1** Press ▲ or ▼ on the **Programme Timer** screen to check the schedule.

## To edit a schedule

**1** Press ▲ or ▼ on the **Programme Timer** screen to select the title whose schedule you want to edit and press **OK**.

The **Set Timer** screen will appear. Change the settings as required, following the same procedure as for setting the schedule.

**2** Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

## To delete a schedule

**1** Press ▲ or ▼ on the **Programme Timer** screen to select the title whose schedule you want to delete.

**2** Press the **RED** button.

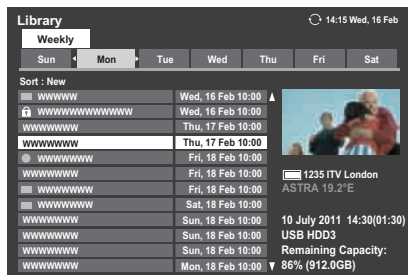
Press ◀ or ▶ in the displayed confirmation window to select **Yes** and press **OK**. The selected schedule will be deleted.

**NOTE:** You can also delete a schedule by selecting **Delete Timer** from the **Set Timer** menu for each programming method.

## To view a recorded programme

*Display the **Library** screen and select the title of the recorded programme from the list.*

**1** Press **MENU** / ◀▶ / ▲ / ◀▶ to highlight **TV Programmes / Library** icons and press **OK**. **Library** screen will appear.

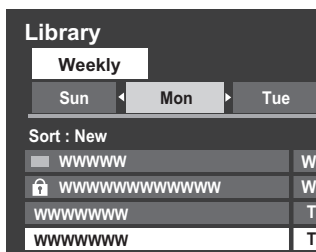


**2** Press ▲ or ▼ to select the title you want to view.

The content of the title selected on the thumbnail screen is played.

To change the order in which the titles are listed, press the **BLUE** button to select **New** or **Old**.

To display the titles by week or by **Personal Mode**, press the **YELLOW** button to select **All**, **Weekly** or **Personal Grouping**.



Press ◀▶ to select a day tab or **Personal Mode** tab.

**NOTE:** If no titles have been registered to **Personal Mode**, **Personal Grouping** will be grayed out.

**3** Press **OK**.

Viewing starts.

● icon appears next to the title currently being recorded.

When the title currently being recorded is selected and **OK** is pressed, playback will start from the beginning of the programme currently being recorded.

Operations during viewing

The following operations can be performed using the remote control buttons.

- ▶ To PLAY

■ To STOP

II/III To PAUSE/STEP To start Time Shift Recording
- ◀◀ To SKIP-BACK

◀◀ To REWIND

▶▶ To FAST FORWARD

▶▶ To SKIP-FORWARD

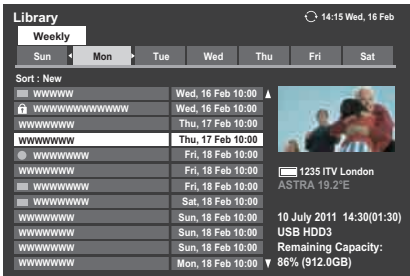
Operations from the Library screen

As well as viewing the list of recorded titles on the **Library** screen, you can protect or delete titles and register titles to **Personal Mode**.

To display the Library screen

**1** Press **MENU** / ◀▶ / ▲ / ◀▶ to highlight **TV Programmed / Programme Timers** icons and press **OK**.

**2** Press ▲ or ▼ to select **Library** and press **OK**. The **Library** screen will appear.



To protect or unprotect a recorded programme

Protecting a programme prevents it from being accidentally deleted.

Select the title of the programme you want to protect and press the **GREEN** button. 🛡 icon appears next to the title and the programme is protected.

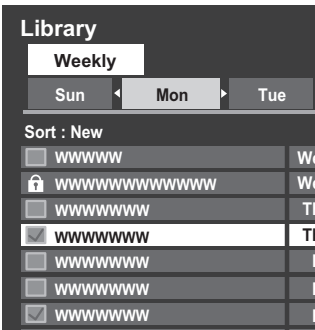
If Protect is set to **On** when the programme is recorded, 🛡 icon appears next to the title of the recorded programme.

When a title with 🛡 icon is selected and the **GREEN** button is pressed, 🛡 icon disappears and the programme is unprotected.

To delete a recorded programme

**1** Press the **RED** button. Check boxes will appear next to the titles.

**2** Press ▲ or ▼ to select the title you want to delete and press **OK**. A check mark will be inserted in the check box.



To insert a check mark against all the titles, press the **GREEN** button.

To uncheck all the check boxes, press the **BLUE** button.

NOTE:

- A check mark will not be inserted against protected titles.
- Note that once deleted, a title cannot be restored.

**3** Press the **RED** button.

Select **Yes** in the confirmation window and press **OK**.

All the titles with check marks will be deleted.

## To register a recorded title to Personal Mode

- 1 Select the title you want to register to **Personal Mode**.

- 2 Press the **QUICK** button to display the **Personal Mode** registration menu.



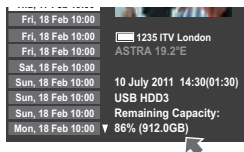
- 3 Press ◀ or ▶ to select the **Personal Mode** to which you want to register the title and press **OK**.

The title will be registered to the selected **Personal Mode**.

You can remove a title from the registered **Personal Mode** by selecting **None**.

## To check the remaining USB HDD capacity

You can check the remaining capacity of the USB HDD using **Remaining Capacity**.



**NOTE:** The remaining capacity displayed is only a guide; it is not guaranteed.

## Other useful functions (Time Shift Recording)

*If you move away from the TV for a while, such as when the phone rings while you are watching TV, you can easily start recording and then catch up with the programme later.*

- 1 Press **III** on the remote control while viewing DTV.

The screen will switch to the Pause image and recording will start automatically.  
The recording time is the time set in **One Touch Recording** (see page 55).

- 2 Press **▶** (play).

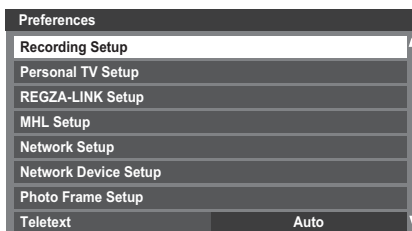
Catch-up viewing will start from where the programme was paused.

## Recording Setup

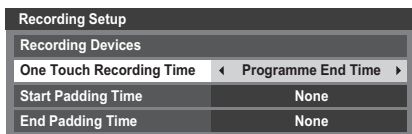
*You can set your preferences for One Touch Recording or for scheduling recording.*

### To set the recording time for One Touch Recording

- 1 Press **MENU** / ◀▶ to highlight **Setup** icon.
- 2 Press ▲ / ◀▶ to highlight **Preferences** icon and press **OK**.
- 3 Press ▲ or ▼ to select **Recording Setup** and press **OK**.



- 4 Press ▲ or ▼ to select **One Touch Recording Time**.



- 5 Press ◀ or ▶ to select the recording time.

You can set the **Programme End Time** in 30-minute increments in the range of 30 minutes to 360 minutes.

### To set the padding time for programmed recording start time and end time.

- 1 In the **Recording Setup** screen, press ▲ or ▼ to select **Start Padding Time**.

- 2 Press ◀ or ▶ to select a time.

You can select from **None**, 1 minute, 3 minutes, 5 minutes and 10 minutes. Recording will start at the selected number of minutes prior to the recording start time.

- 3 Press ▲ or ▼ to select **End Padding Time**.

- 4 Press ◀ or ▶ to select a time.

You can select from **None**, 1 minute, 3 minutes, 5 minutes and 10 minutes. Recording will end at the recording end time plus the selected number of minutes.

## Setting USB HDD Energy-Saving Mode

- 1 In the **Recording Setup** screen, press **▲** or **▼** to select **Recording Devices** and press **OK**.
- 2 Press **▲** or **▼** to select **Device Energy Saving Mode**.



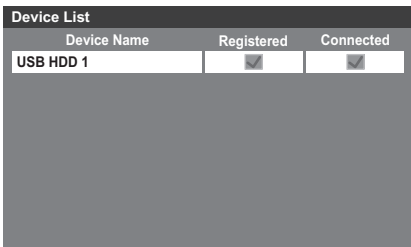
- 3 Press **◀** or **▶** to select **Normal** or **Energy Saving**.

### NOTE:

- When set to **Energy Saving**, it may take a while for the USB HDD to function.
- When set to **Energy Saving**, depending on the type of USB HDD, the USB HDD indicator lamp may not indicate standby status even when in standby status.

## To change the name of the USB HDD

- 1 In the **Recording Setup** screen, press **▲** or **▼** to select **Recording Devices** and press **OK**.
- 2 Press **▲** or **▼** to select **Device List** and press **OK**. The **Device List** screen will appear.



- 3 Press the **GREEN** button.

Edit the desired name by using the software keyboard (page 51). The maximum number of characters is 10.

**NOTE:** If multiple USB HDD appear on the **Device List** screen in Step 2, press **▲** or **▼** to select the USB HDD whose name you want to change.

## To perform a USB HDD operation test

- 1 Press the **YELLOW** button on the **Device List** screen.
- USB HDD operation test will start.  
Wait until the test ends.

**NOTE:** The results of the device test are only a guide. The device may not function as shown in the results.

## To register a USB HDD

- 1 Press **OK** on the **Device List** screen.

Press **◀** or **▶** to select **Yes** in the confirmation window that will appear and press **OK**. USB HDD registration will start. Wait until registration ends.

### NOTE:

- If multiple USB HDD appear on the **Device List** screen, press **▲** or **▼** to select the USB HDD you want to register.
- If a USB HDD is re-registered, it will not be formatted.

## To format a USB HDD

- 1 Press the **BLUE** button on the **Device List** screen.

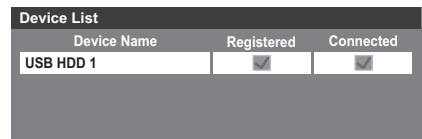
Press **◀** or **▶** to select **Yes** in the confirmation window that will appear and press **OK**. Formatting will start. Wait until formatting ends.

### NOTE:

- If multiple USB HDD appear on the **Device List** screen, press **▲** or **▼** to select the USB HDD you want to format.
- When the USB HDD is formatted, all the data stored on the USB HDD will be deleted.

## To disconnect a USB HDD

- 1 Press **MENU** / **◀▶** to highlight **Setup** icon.
- 2 Press **▲** / **◀▶** to highlight **Preferences** icon and press **OK**.
- 3 Press **▲** or **▼** to select **Recording Setup** and press **OK**.
- 4 Press **▲** or **▼** to select **Recording Devices** and press **OK**. The **Device List** screen will appear.



- 5 Press the **RED** button.

Press **◀** or **▶** to select **Yes** in the confirmation window that will appear and press **OK**. The **Connected** check mark will be removed. Disconnect the USB HDD.

**NOTE:** If multiple USB HDD appear on the **Device List** screen, press **▲** or **▼** to select the USB HDD you want to disconnect.

## To confirm/delete Recording Information

*If programmed recording is not performed correctly or some other error occurs, you can check the error content using*

**Recording Information.** Up to 64 **Recording Information** entries will be recorded and when the maximum is exceeded, entries will be deleted starting from the oldest. You can delete

**Recording Information** after you have checked it.

- 1 Press **QUICK** to open the **Quick Menu**.
- 2 Press **▲** or **▼** to select **Recording Information** and press **OK**. The **Recording Information** screen will appear.



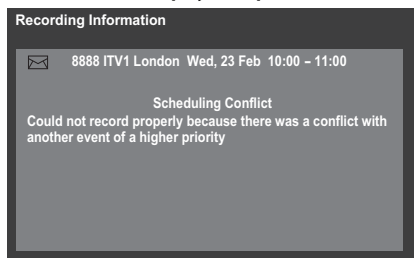
The recorded Recording Information list will appear.

✉ (Yellow) icon will appear next to unread Recording Information.

## To check the content of Recording Information

- 1 In the **Recording Information** screen, press **▲** or **▼** to select the title you want to display.
- 2 Press **OK**. The content of **Recording Information** will appear.

### Display Example



When you have checked the content, press **BACK**. The screen will return to the previous screen.

## To delete Recording Information

- 1 In the **Recording Information** screen, press **▲** or **▼** to select the **Recording Information** you want to delete and press **OK**.
  - 2 Press the **RED** button.
- Select **Yes** in the confirmation window that will appear and press **OK**.  
The selected **Recording Information** will be deleted.

## Scheduling priority

If scheduled time slots are next to each other and there is more than one minute between the end time of the first schedule and the start time of the next schedule, programmed recording will be performed correctly.

- When **Start Padding Time** and **End Padding Time** are set (see page 60), the start time and end time will be the time plus the additional minutes.


If scheduling times overlap, priority will be given to the programmed recording which starts first. When the programmed recording that started first ends, recording will switch to the next scheduled programme. At this time, depending on how far the scheduling times overlap, the beginning section of the next scheduled programme may not be recorded.

- When **End Padding Time** is set for the first programmed recording (see page 60), depending on how far the scheduling times overlap, the **End Padding Time** may be ignored and recording of the next scheduled programme may start. As priority is given to the time set in the **Set Timer** menu over the Padding Time, recording will automatically be triggered when the next scheduled programme start time is reached during **End Padding Time**.

## Using Toshiba Places

A new cloud based service, where content (movies, photos, etc.) can be viewed and shared across the web through a simple user interface called “Toshiba Places”.

**NOTE:** You need to configure a home network before using this feature (see page 14).

- 1
- Press  on the remote control, or press **MENU** / **▲** / **◀▶** to highlight **Connected TV** / **Toshiba Places** icons and press **OK**.
- 2
- Press **▲▼◀▶** to select the desired place and press **OK**.

**NOTE:**

- Some features require an always-on broadband internet connection, firmware update and/or additional bandwidth dedicated to this product. Third party internet services may change or be discontinued or restricted at any time. Toshiba makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party internet services may require registration by a computer and/or payment of charges and membership. Not all services or content may be available on this product, in your country or with your language. In order to experience the full capabilities of this product, fully compatible devices may be required. For more information, visit <http://www.toshibaplaces.com/about>.
- This service may be forcibly blocked according to the situation of CSP service.

## Using BBC iPlayer


You can watch and listen to great BBC programmes from the last 7 days on BBC iPlayer.

**NOTE:**

- You need to configure a home network before using this feature (see page 14).
- If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (see page 82).

- 1
- Press **MENU** / **◀▶** / **▲** / **◀▶** /to highlight **Connected TV** / **BBC iPlayer** icons and press **OK** to open the browser.



Remote Key	On Browser	While Playback
EXIT	To exit	To exit
▲	To move up	–
▼	To move down	–
◀	To move left	To move Slider
▶	To move right	To move Slider
OK	To select	–
	–	To display Banner
BACK	To back	To back
■	–	To stop and go back
▶	–	If paused, to play
⏸	–	To pause

- This service is not available outside the UK.
- This TV may not be able to operate some functions that can be found on the PC version of BBC iPlayer.
- Depending on network environment and the usage situation, content may be difficult to view.
- To get IPTV services you will need a minimum actual broadband speed of 1Mbps, or 2Mbps for high quality viewing.

## Using YouTube™

YouTube is a video-sharing service managed by YouTube, LLC.

This TV allows you to view YouTube content.

### NOTE:

- You need to configure a home network before using this feature (see page 14).
- If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (see page 81).

- Press **MENU** / ▲ / ◀▶ to highlight **Connected TV / YouTube** icons and press **OK**.

The YouTube top page will appear.

- Press ▲▼◀▶ to select the file you want to view, and press **OK**.

### To close YouTube:

- Press **EXIT**.

### NOTE:

- This TV may not be able to perform all of the same operations as a computer.
- Depending on the network environment and use case, you may experience difficulty viewing content.
- Though the same volume value, actual volume might be greatly different depending on contents.
- It may take time for the TV to load and begin playing back content.
- Service content and the look and feel of the interface may be changed at any time without prior notice.

## Using the Function Menu

*The Function Menu provides easy access to functions that are commonly used.*

- Press the **BLUE** button while displaying YouTube. The Function menu window will appear.



- Press ◀ or ▶ to select the desired icon and press **OK**.

Item	Description
Back	Returns to the previous page.
Forward	Moves to the forward page.
Reload/ Abort	Updates the displayed page. Aborts update (X is displayed while reading, and ↺ is displayed in other case.)
Home	Returns to the top page of YouTube.
Pointer	Switches the pointer On/Off or drag mode.
Menu	Switches the frame or sets various settings.

### Switching the pointer

The tool that operates the screen can be changed to pointer or drag mode.




- From the Function menu, press ◀ or ▶ to select **Pointer**, and then press **OK**.
- If you select ⚭, see "To use the Pointer: ON:". If you select ⚭, see "To use the Drag Mode:".

### To use the Pointer: ON:

- Press ▲ or ▼ to select **Pointer: ON** and press **OK**.
  - ⚭ will appear.
- Press ▲▼◀▶ to the place where ⚭ changes to ⚭, and then press **OK**.

**NOTE:** When **Pointer: OFF** is selected and ▲▼◀▶ is pressed, the highlight moves to linked areas.

To use the Drag Mode:

- 1 Press ▲ or ▼ to select **Pointer: ON** and press **OK**.
- 2 Press the **BLUE** button.
- 3 From the Function menu, press ◀ or ▶ to select **Pointer**, and then press **OK**.
- 4 Press ▲ or ▼ to select **Drag Mode** and press **OK**.
  -  will appear.
- 5 Press **OK**, and then  changes to .
- 6 Press ▲▼◀▶ to move the selected item in the desired place.

Switching the frame

- 1 From the Function menu, press ◀ or ▶ to select **Menu**, and then press **OK**.
- 2 Press ◀ or ▶ to select **Page Tasks**.
- 3 Highlight **Switch Frames** and press **OK**.

Setting the view feature

- 1 From the Function menu, press ◀ or ▶ to select **Menu**, and then press **OK**.
- 2 Press ◀ or ▶ to select **View**.
- 3 Press ▲ or ▼ to select the desired item and press **OK**.
- 4 Press ▲ or ▼ to select the desired setting and press **OK**.

Item	Settings
Display Mode	<b>Normal:</b> Displays YouTube page with the size as it is. <b>Just-Fit Rendering:</b> Displays YouTube page at a size that has been adjusted to precisely fit the width of your TV.
Text Size	Changes the font size of the screen. Select from <b>Largest, Large, Medium, Small</b> or <b>Smallest</b> . <b>NOTE:</b> This font size is effective only for the page.
Advanced Settings	See the next column.
Page Information	Displays the information of the page you are viewing.
Server Certificates	Displays the server certification.

If you select Advanced Settings:

- 1 Press ▲▼◀▶ to select the setting items, and press **OK**. A check will appear in the box. To remove the check, press **OK** again.
- 2 Press ▲▼◀▶ to select **OK** field and press **OK**.

Item	Description
Image	Sets display/non-display of images.
Table	Sets effect/non-effect of tables.
CSS	Sets effect/non-effect of CSS.
Pop-up window	Sets effect/non-effect of pop-up windows.
Animation	Sets display/non-display of animations.
JavaScript	Sets effect/non-effect of JavaScript.
Word wrap	Sets effect/non-effect of Word Wrap. If Word Wrap is enabled, a word not finished at the end of a line is shifted to the next line.
Rapid-Render	Sets effect/non-effect of Rapid-Render. If Rapid-Render is enabled, texts and links are displayed first, and the images and the tables, etc. are displayed afterward. The highlight can be moved with the text and the link displayed.

Setting other features

- 1 From the Function menu, press ◀ or ▶ to select **Menu**, and then press **OK**.
- 2 Press ◀ or ▶ to select **Settings**.
- 3 Press ▲ or ▼ to select the desired item and press **OK**.
- 4 Press ▲ or ▼ to select the desired setting and press **OK**.

Item	Settings
Security	When jumping from a protected page to an unprotected page, the message is displayed when the check is applied to <b>Notify of secure/non-secure page changes</b> . Apply the check to select SSL version from <b>SSL Version to use (SSL2.0, SSL3.0, TLS1.0)</b> . A content confirmation of the certification and a setting effect/non-effect can be done in <b>Root Certificates</b> and <b>CA Certificates</b> shown below.
Cookies	<b>Accept all:</b> Cookie is received, and it records in this TV. <b>Reject all:</b> Cookie is not received. <b>Prompt before accepting:</b> When Cookie is received, a message window will be displayed.
Delete Cookies	Deletes all recorded Cookies.
Cache	<b>Use cache:</b> When the check is applied to this, cache is used. <b>Delete All Cache Data:</b> Deletes all the cache data preserved in the television.
Browser Information	Displays the information on a browser.

**NOTE:**

- Cookie is the technical information that a website leaves in this TV so that the website will recognize you when you use it again.
- Cache is a system used to shorten the display time by checking the past data preserved in this television when a page that you viewed before is seen again.

**To confirm Root Certificates or CA Certificates:**

- 1 Press **▲** or **▼** to select **Security** in step 3 in **Setting other features**.
- 2 Press **▲▼◀▶** to select **Root Certificates** or **CA Certificates** and press **OK**.
- 3 Press **▲** or **▼** to select the desired certificate.
  - When **OK** is pressed, a detailed information window will appear.
  - When the **BLUE** button is pressed, **Disable** or **Enable** bar will appear. It changes whenever **BLUE** button is pressed.
- 4 Press **BACK**.

## Using Hybrid TV Standard (if available)

Hybrid TV Standard enables the TV to receive HbbTV services. TV services which support this feature often show “press RED” on the screen.

**NOTE:** You need to configure a home network before using this feature (see page 14).

- 1 Press **MENU** / **◀▶** / **▲** / **◀▶** to highlight **Setup / Preferences** icon and press **OK**.
- 2 Press **▼** to select **Hybrid TV Standard**.
- 3 Press **◀** or **▶** to change from **Disabled** to **Enabled**. When changing from **Disabled** to **Enabled**, a **Network Connection Test** is performed. If the result is OK, then the setting changes to **Enabled**. If not, the setting remains **Disabled**.

When “press RED” is indicated on the screen, press the **RED** button to access HbbTV service site, and then press **▲▼◀▶** to select the desired contents.

**NOTE:**

- This service is not available outside Germany.
- The HbbTV service indication or required key operations may not be possible depending on the service contents. In this case, set the **Hybrid TV Standard** setting to **Disabled**.
- Toshiba makes no warranties, representations, or assurances about the content.

# Using the Media Player

This TV allows you to enjoy movie, music and photo files stored on a USB device connected to the USB port.  
Moreover, you can also play photos, movies or music files from your PC by connecting the TV to your home network.

## Terminology:

DMP: DLNA CERTIFIED™ Player

DMS: DLNA CERTIFIED™ Server

DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED™ Controller

- DMP: The TV can control and play content from a DMS.
  - A DMS is a device that can function as a server for DMP or DMR.
- DMR: The TV can play content from a DMS. Playback is controlled by a DMC.
  - A DMC is a device that can instruct the TV to display content.

## NOTE:

- Do not insert/remove USB device while in use.
- MENU is not available during playback.
- When you want to use your TV as a DMR, set Media Renderer to On (see “Media Renderer” on page 52).

## Media Player Specifications

### Device

USB device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

### NOTE:

- Connectivity is not guaranteed for all devices.
- A USB hub can not be used.

File system: FAT16 and FAT32

Maximum memory size: Unlimited

DLNA CERTIFIED™ Server: Your PC (for example)

You must obtain any required permission from copyright owners to download or use copyrighted content. TOSHIBA cannot and does not grant such permission.

## Basic operation

### Using Media Player with USB

When Auto Start is enabled, you will be asked if you want to start the Media Player whenever a USB device is inserted. If Auto Start is disabled (or if you want to connect to a DMS on the network), you must manually start the Media Player from the menu.

### To change the Auto Start setting:

- 1 Press **MENU** / ◀▶ / ▲ / ▼▶ to highlight **Media Player** / **Media Player Setup** icons and press **OK**.
- 2 Press ▲ or ▼ to select **USB Auto Start**, and then press ◀ or ▶ to select **On** or **Off**.



### Auto Start:

- 1 Insert USB device into the USB socket on the left side of the TV. A prompt will appear.
- 2 Press ◀ or ▶ to select **Yes**, and then press **OK**.
- 3 Press ▲ or ▼ to select **Photo**, **Movie**, or **Music** and press **OK**.

**NOTE:** If **Auto Start** is set to **Off**, you can start the Media Player manually.

**Manual Start:**

- 1** Insert USB device into the USB socket on the left side of the TV.
- 2** Press **MENU** / ◀▶ to highlight **Media Player** icon.
- 3** Press ▲ / ◀▶ to highlight **Photo**, **Movie** or **Music** icon and press **OK**. The contents list will appear.

**To select a file in the list of contents:**

- 1** Press ▲▼ (◀▶) to select a file or folder.
- 2** Press **OK** to move to the next layer, or press **BACK** to return to the previous layer.

**To close the Media Player:**

- 1** Press **EXIT**.

**Using the Media Player with a DLNA CERTIFIED™ Server**

You need to configure a home network before using this feature (see page 14).

- 1** Press **MENU** / ◀▶ to highlight **Media Player** icon.
- 2** Press ▲ / ◀▶ to highlight **Photo**, **Movie**, or **Music** icon and press **OK**. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.

**NOTE:** If there is more than one media server on the network, a list of all media servers will be displayed. Highlight the server you want to use, and press **OK**.

- 3** Press ▲ or ▼ to select a DMS if the selection window is displayed.

**To select a file in the list of contents:**

- 1** Press ▲ or ▼ to select a file or folder.
- 2** Press **OK** to move to the next layer, or press **BACK** to return to the previous layer.

**To close the Media Player:**

- 1** Press **EXIT**.

**To display the device information:**

- 1** Press **QUICK** to open the **Quick Menu** in list mode or Multi View mode.
- 2** Press ▲ or ▼ to select **Device Information**.

**Setting DLNA CERTIFIED™ Server waking up:**

You only need to complete the Media Server Setup if you wish to use the "Wake-on-LAN" feature.

- 1** Press **MENU** / ◀▶ / ▲ / ◀▶ to highlight **Media Player** / **Media Player Setup** icons and press **OK**.
- 2** Press ▲ or ▼ to select **Media Server Setup** and press **OK**. A list of currently available DMSs will appear.
- 3** Press ▲ or ▼ to select the desired device, and press **OK**. A check will appear in the box. To remove the check, press **OK** again.
- 4** Press ▶ to highlight **Done**, and then press **OK** to save.

**NOTE:**

- Up to 8 DMSs can be selected.
- Even if the device checked is powered off, it will be displayed but grayed out in the **Select Device** window. When **OK** is pressed on a highlighted grayed out item, a confirmation of Wake-on-LAN is displayed. The TV tries to wake up the DMS if **Yes** is pressed. The Server will start if it supports Wake-on-LAN feature.
- When some DMSs are connected, it may take time until the list is displayed. The list may be refreshed by the following operation.
  - The device selection window is closed once and it is displayed again.
  - The **RED** button is pressed.

**USB 2 Port Setup (if available)**

- 1** Press **MENU** / ◀▶ to highlight **Setup** icon.
- 2** Press ▲ / ◀▶ to highlight **System Setup** icon and press **OK**.
- 3** Press ▲ or ▼ to select **USB 2 Port Setup** and press ◀ or ▶ to select **Recorder** or **Media Player**.

## Viewing photo files (on a DLNA CERTIFIED™ Server or USB device)

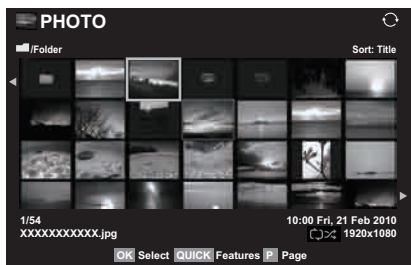
There are three types of viewing modes.

**NOTE:** Only USB 1 port supports viewing photos from a USB device.

### Multi View

This view allows you to search for photos in a grid format. The pictures are displayed using thumbnail data in each image file.

Photo list example



The initial highlighted position will be on the top left thumbnail in the Multi View.

- 1 Press **▲▼◀▶** to move the highlight in one window. If all of the photos will not fit in one screen, when pressing **◀** at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing **▶** at the bottom right thumbnail, the screen will move to the next page.

**P▲P▼** buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen. When the **P▲P▼** buttons are pressed, the highlight shall be on the photo at the top left of Previous/Next list.

- 2 When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- 3 Press **OK** to view the selected photo in Single View mode.

**NOTE:** When the TV is used as a DMR, this feature is not available.

### Single View

In this mode, only files located in the selected directory will be displayed. This view allows you to change the photo content manually. When moving from Multi View to Single View, the currently selected photo will be displayed.

- 1 Press **▶** to view the next photo. Press **◀** to view the previous photo.
- 2 Press **▲** to rotate the image 90° clockwise. Press **▼** to rotate the image 90° counterclockwise.
- 3 Press **i+** to display file status information (file number, photo title, date and time taken, resolution etc.).

#### NOTE:

- The information may not be correctly displayed depending on the content, DMC or DMS.
- You can not rotate in 3D (2D to 3D) mode.

### Slide Show

This view allows you to watch a slide show of your photos. In this mode, only files located in the selected directory will be played.

- 1 To start slideshow, press **OK** in the Single View mode.
- 2 Press **◀** or **▶** to view the previous/next photo.
- 3 Press **▲** or **▼** to rotate the photo.
- 4 Press **i+** to display file status information.

### To set Interval Time and Repeat settings:

- 1 Press **QUICK** to open the **Quick Menu** while in the Single View mode or Slide Show mode.
- 2 Press **▲** or **▼** to select either **Interval Time** or **Repeat**.
- 3 Press **◀** or **▶** to adjust the setting and press **OK**.

### To zoom in/out photos

During the Single View mode or Slide Show mode, the zoom function can be used.

**RED button:** x1 → x2 → x4 → x8 → x16 zoom

**GREEN button:** x16 → x8 → x4 → x2 → x1 zoom

**BACK button:** Normal playback

**▲▼◀▶ buttons:** Vertical or Horizontal scrolling

### To set the shuffle mode (USB only):

- 1** Press **QUICK** to open the **Quick Menu** in list mode.
- 2** Press **▲** or **▼** to select **Shuffle**.
- 3** Press **◀** or **▶** to select **On** or **Off**.

### To sort the folders and files

- 1** Press **QUICK** to open the **Quick Menu** from Multi View mode.
- 2** Press **▲** or **▼** to select **Sort**.
- 3** Press **◀** or **▶** to select **Title / File Name**, **New** or **Old** to set the sorting rule.

Item	Description
<b>Title (DMS)</b>	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z) 3. Increasing order
<b>File Name (USB)</b>	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z) 3. Increasing order
<b>New</b>	From new to old according to the date and time when the picture was taken.
<b>Old</b>	From old to new according to the date and time when the picture was taken.

**NOTE:** Sorting may not be supported by some DMSs.

### To select Picture Size

During the Single View mode or Slide Show mode, Picture Size selection is available by pressing the **QUICK** button.

When viewing pictures from a USB device, you can choose **Dot by Dot** or **Normal**.

However, when the resolution is 3840 x 2160 or above, the Picture Size selection menu will be grayed out.

When viewing DMS pictures, you can choose **Quad FHD** or **Normal**.

However, when the resolution is 1920 x 1080 or above, the Picture Size selection menu will be grayed out.

### Selecting the Playback Mode

You can view 3D photos in 3D and you can also view 2D photos in 3D.

Select the playback mode from the Quick Menu or switch playback modes using the **3D** button on the remote control.

The current **Playback Mode** is displayed at the top left of the list mode.

### To select the playback mode from the Quick Menu

- 1** Press **QUICK** to open the **Quick Menu** in Multi View mode.
- 2** Press **▲** or **▼** to select **Playback Mode** and press **◀** or **▶** to select **2D Mode**, **3D Mode 1** or **3D Mode 2**.

#### 2D Mode

All photos are displayed in 2D.

#### 3D Mode 1

3D photos are displayed in 3D and 2D photos in 2D.

#### 3D Mode 2

All photos are displayed in 3D.

2D photos are converted and displayed in 3D, and 3D photos are displayed in 3D.

### To switch playback modes using the remote control

- 1** Press **3D** while in **Single View** mode.

The mode switches between **2D Mode**, **3D Mode 1** and **3D Mode 2** each time **3D** is pressed.

### To display the device information

- 1** Press **QUICK** to open the **Quick Menu** from Multi View mode.
- 2** Press **▲** or **▼** to select **Device Information** and press **OK**.

**NOTE:** When the photos on the USB device are used, or the TV is used as a DMR, this feature is not available.

### To close the Photo Viewer

- 1** Press **EXIT**. The television will return to the last viewed channel or external input.

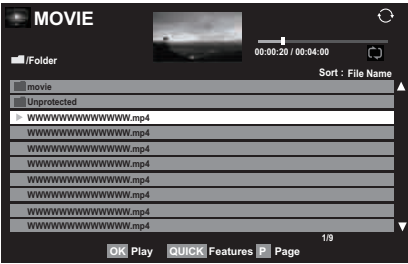
### File Compatibility

See page 103.

Viewing movie files (on a DLNA CERTIFIED™ Server or USB device)

You can select movies from a list of available files.

Movie list example



**1** Press ▲ or ▼ to select a file or folder. P▲ P▼ buttons can be used to page up/down the movie list when there are more files than will fit onto one screen.

**2** When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.

**3** With the desired file selected, press **OK** or ► (play) to start playback.

**NOTE:**

- On preview screen, if you highlight the file without pressing **OK**, the content is played on a preview screen. When **OK** is pressed, it is played in full screen mode.
- Depending on the file size, it may take some time to start playback.

**4** Press ■ to stop playback.

**NOTE:**

- If playback finishes before ■ is pressed, the screen will return to the list.
- Depending on the file size, it may take some time for playback to begin.

**During playback:**

- Press II/III ► to pause.  
You can move to the desired replay position by pressing ◀ or ► during PAUSE.  
PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.
- To resume normal playback, press ► (play).
- To play in fast reverse or fast forward directions, press ◀◀ or ►► during playback. Each time you press the ◀◀ or ►►, the playback speed will change.  
PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.
- To locate a specific file, press ◀◀ or ►► repeatedly.
- Press [I+] to display the file status information (content number, movie title, progress time etc.).

**NOTE:**

- The information may not be correctly displayed depending on the contents, DMC or DMS.
- During playback, you can adjust the Picture, Picture Size and Sound menu functions from the **Quick Menu**.

**To select subtitle and audio languages**

- Press **SUBTITLE** repeatedly to select your preferred subtitle language.
- Press ◻I/II repeatedly to select your preferred audio language.

**NOTE:** This feature may not be available depending on the contents.

**To set the repeat mode**

**1** Press **QUICK** to open the **Quick Menu**.

**2** Press ◀ or ► to select **Off**, **All** or **1**.

Mode	Description
Off	The file is played back only once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

**3** Press **BACK**.

**NOTE:** When the TV is used as a DMR, this feature is not available.

## To sort the folders and files

- 1** Press **QUICK** to open the **Quick Menu** in list mode.
- 2** Press **▲** or **▼** to select **Sort**.
- 3** Press **◀** or **▶** to select **Title / File Name**, **New** or **Old** to set the sorting rule.

Item	Description
<b>Title (DMS)</b>	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z) 3. Increasing order
<b>File Name (USB)</b>	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), alphabet (A, B, ..., Z) 3. Increasing order
<b>New</b>	From new to old according to the date and time when the contents were updated.
<b>Old</b>	From old to new according to the date and time when the contents were updated.

**NOTE:** Sorting may not be supported by some DMSs.

## To display the device information

- 1** Press **QUICK** to open the **Quick Menu** in list mode.
- 2** Press **▲** or **▼** to select **Device Information** and press **OK**.

**NOTE:** When movies on a USB device are used, or the TV is used as a DMR, this feature is not available.

## To close the Movie Viewer

- 1** Press **EXIT**.

## File Compatibility

See page 103.

## To register your TV to a DivX® account

This TV allows you to play back files purchased or rented from DivX® Video-On Demand (VOD) services. When you purchase or rent DivX® VOD files on the internet, you will be asked to enter a registration code.

- 1** In the **Media Player Setup** menu, press **▲** or **▼** to select **DivX® VOD** and press **OK**.
- 2** Press **▲** or **▼** to select **DivX® VOD Registration** and press **OK**.



- 3** The **DivX® VOD** window will appear and you will see the registration code. For details on registration, please visit the DivX® website at

<http://vod.divx.com>

- 4** Copy the activation file to a memory device and play it on the TV.

## To deactivate your device

- 1** In step 2 above, highlight **DivX® VOD Deactivation**, and then press **OK**.
- 2** A confirmation message will appear. Select **Yes** and press **OK**.
- 3** The **DivX® VOD** window will appear and you will see the deactivation code. For details on registration, please visit the DivX® website at

<http://vod.divx.com>

**ABOUT DIVX VIDEO:** DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit [divx.com](http://divx.com) for more information and software tools to convert your files into DivX videos.

**ABOUT DIVX VIDEO-ON-DEMAND:** This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

### To playback DivX Plus HD content:

- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.
- This TV generates original chapter point in 10% increments for 10 chapters in total, that are accessible by using the **Number** buttons on the remote control.

During playback, press ▶▶ to skip to the beginning of the next chapter. When ▶▶ is pressed twice in succession, it will repeat two times of above. If ▶▶ is pressed at the last chapter, playback will skip to the beginning of the next content.

Press ◀◀ to skip to the beginning of the current chapter. When ◀◀ is pressed twice in succession, it will skip to the beginning of the previous chapter. If ◀◀ is pressed twice in succession at the first chapter, stop playing the current content and skip to the beginning of the previous content.

The Number button is used for direct jump. If the 3 button is pressed, playback will jump to the beginning of 3rd chapter. Even if the playback content have authored chapters, the Number button is used to jump directly to Auto Generated Chapter.

If the content has Authored Chapters, ◀◀ / ▶▶ are using for Authored Chapters.

**NOTE:** Depending on the content data will not be operated.

### Using Multi Title and Alternative Timelines Multi Title

DivX Plus HD files may contain up to 100 titles.

You can change the title (It contains same video file) by pressing the **RED** button.

When the **RED** button is pressed, it will display the title change window at the bottom on the screen (same as Subtitle or Audio change window).

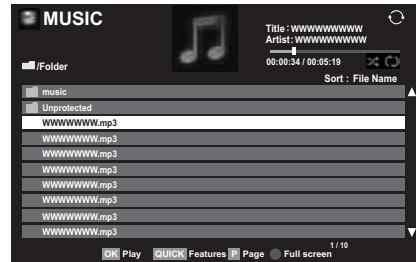
The title is changed cyclically each time the **RED** button is pressed. Playback will start from start time of selected title each time you press ▲ or ▼.

**NOTE:** Depending on the content data will not be operated.

## Playing music files (on a DLNA CERTIFIED™ Server or USB device)

You can listen to music from a list of available files.

### Music list example



- Press ▲ or ▼ to select a file or folder. P▲P▼ buttons can be used to page up/down the music list when there are more files than will fit onto one screen.
- When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- With the desired file selected, press **OK** or ▶ (play) to start playback.
- Press ■ to stop playback.

**NOTE:** **OK** takes to you full screen playback. Playback in preview start without pressing **OK**. Moving cursor up/down plays music.

### NOTE:

- Depending on the file size, it may take some time for playback to begin.
- During playback, you can adjust the **Sound** menu functions from the **Quick Menu**.

### During playback in full screen:

- Press |||▶ to pause.
- To resume normal playback, press ▶ (play).
- You can move to the desired replay position by pressing ◀ or ▶ during PAUSE. PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶. Each time you press ◀◀ or ▶▶, the playback speed will change. PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.

To set the repeat mode:

- 1 Press **QUICK** to open the **Quick Menu** in list mode.
- 2 Press **▲** or **▼** to select **Repeat**.
- 3 Press **◀** or **▶** to select **Off**, **All** or **1**.

Mode	Description
Off	Files in the same folder are played back once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

- 4 Press **BACK**.

**NOTE:** When the TV is used as a DMR, this feature is not available.

To set the shuffle mode (USB only):

- 1 Press **QUICK** to open the **Quick Menu** in list mode.
- 2 Press **▲** or **▼** to select **Shuffle**.
- 3 Press **◀** or **▶** to select **On** or **Off**.

To sort the folders and files

- 1 Press **QUICK** to open the **Quick Menu** in list mode.
- 2 Press **▲** or **▼** to select **Sort**.
- 3 Press **◀** or **▶** to select **Title / File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), alphabet (A, B, ..., Z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), alphabet (A, B, ..., Z) 3. Increasing order
New	From new to old according to the date and time when the contents were updated.
Old	From old to new according to the date and time when the contents were updated.

**NOTE:** Sorting may not be supported by some DMSs.

To display the device information

- 1 Press **QUICK** to open the **Quick Menu** in list mode.
- 2 Press **▲** or **▼** to select **Device Information** and press **OK**.

**NOTE:** When music files on a USB device are used, or the TV is used as a DMR, this feature is not available.

To display the file status information

- 1 Press **i+** during playback. The information will be displayed on the bottom of the screen.
- 2 Press **i+** again to remove the information.

**NOTE:** The information may not be correctly displayed depending on the content, DMC or DMS.

To close the Music Player:

- 1 Press **EXIT**.

File Compatibility

See page 103.

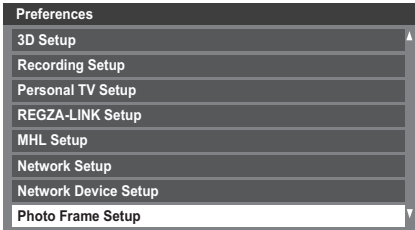
# Using the Photo Frame feature

You can use the TV screen as a digital photo frame. One image (pre-installed or user-installed) can be displayed. Date info can also be superimposed, if desired.

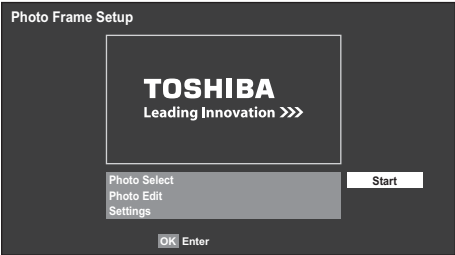
You can overwrite the photo file with a file from a USB storage device or DLNA CERTIFIED™ Server.

## To open Photo Frame

- 1 Press **MENU** / **◀▶** / **▲** / **◀▶** to highlight **Setup** / **Preferences** icons and press **OK**.
- 2 Press **▲** or **▼** to select **Photo Frame Setup** and press **OK**.



The preview screen will appear.



- 3 Press **▶** to select **Start** and press **OK** to open **Photo Frame**.



## To open from the Function menu

- 1 Press **MENU** / **◀▶** / **▲** / **◀▶** to highlight **Function** / **Photo Frame** icons and press **OK**.

## To close Photo Frame:

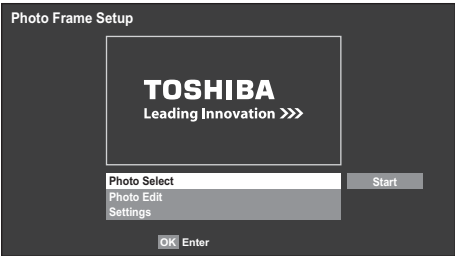
- 1 Press **EXIT**.

## Setting the features

In the preview screen, you can set various settings for Photo Frame.

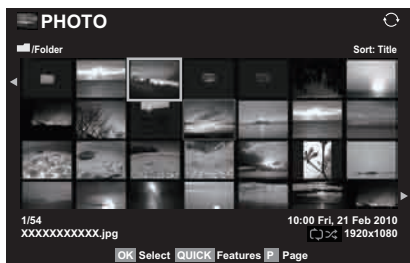
## Photo Select

- 1 In the **Photo Frame Setup** menu, press **▲** or **▼** to select **Photo Select** and press **OK**.



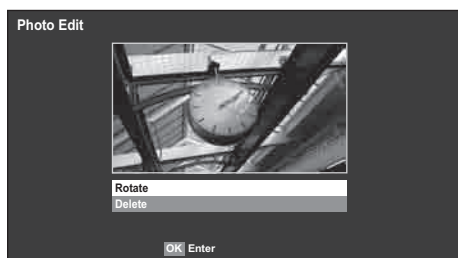
- 2 If the device selection screen appears, press **▲** or **▼** to select the appropriate device and press **OK**.

- 3** Press ▲▼◀▶ to select the photo you want to copy from the USB storage device or DLNA CERTIFIED™ server to the TV's flash memory, and then press **OK**.



### Photo Edit

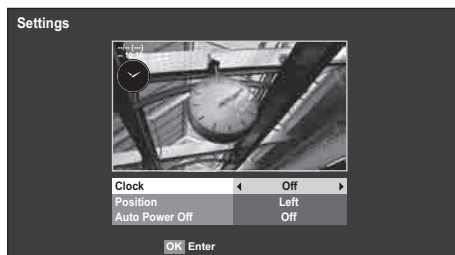
- 1** Press ▲ or ▼ to select **Photo Edit** and press **OK**.
- 2** Press ▲ or ▼ to select **Rotate** or **Delete**.



- 3** Set the following items as required.
- **Rotate** — Press **OK** to rotate the image 90°clockwise.
  - **Delete** — Press **OK**. A confirmation window will appear. Press ◀ or ▶ to select **Yes**, and then press **OK**.
- 4** Press **BACK**.

### Settings

- 1** Press ▲ or ▼ to select **Settings** and press **OK**.
- 2** Press ▲ or ▼ to select **Clock**, **Position** or **Auto Power Off**.



- 3** Set the following items as required.
- **Clock** — Press ◀ or ▶ to select **Off**, **Digital Clock**, **Analogue Clock** or **Analogue + Digital**.
  - **Position** — Press ◀ or ▶ to select **Left** or **Right**.
  - **Auto Power Off** — Press ◀ or ▶ to select **Off**, **00:30**, **01:00**, **02:00**, **04:00**, **06:00** or **12:00**.  
If the Photo Frame window is left open, the TV will automatically turn off after the set length of time (maximum 12 hours).
- 4** Press **BACK**.
- 5** Select **Start** and press **OK**.



### NOTE:

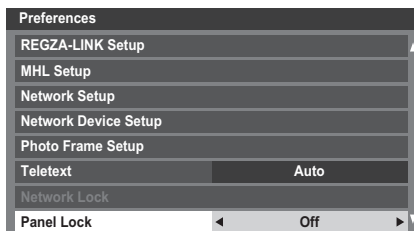
- The clock display will only appear when time from a digital broadcast is available.
- The photo and clock displays are moved by 4 dots every 5 minutes to minimize the risk of screen burn-in.
- The pre-installed photo file is stored in the TV's flash memory before shipment.
- Picture Size selection (Normal/Quad FHD) is available by pressing the **QUICK** button. However when the resolution is 1920 x 1080 or above, the Picture Size selection menu will be grayed out.

## Other features

### Panel Lock

**Panel Lock** disables the buttons on the television. All buttons on the remote control can still be used.

- 1 Press **MENU** / ◀▶ / ▲ / ▶ to highlight **Setup** / **Preferences** icons and press **OK**.



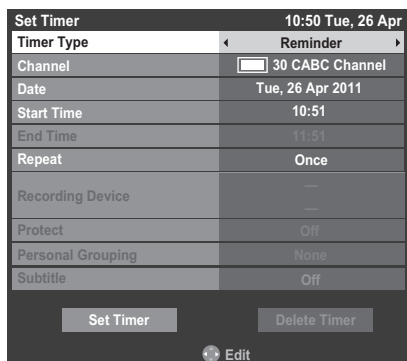
When **Panel Lock** is **On**, a reminder will appear when the buttons on the television are pressed. **If the standby button is pressed, the television will switch off and can only be brought out of standby by using the remote control.**

## The timers

### Programme Timers – digital only

*This feature will set the television to go to a specific channel at a certain time. It can be used to view a particular programme, or by setting the mode to daily or weekly, can be used to view a series of programmes.*

- 1 Press **MENU** / ◀▶ / ▲ / ▶ to highlight **TV Programmes** / **Programme Timers** icons and press **OK**.
- 2 Press ▼ to select **Programme Timers** and press **OK**.
- 3 Press ▼ if necessary to select an open timer position, then press **OK**. The **Set Timer** menu will now appear on screen.
- 4 Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.



- 5 When all of the details have been entered, highlight **Set Timer** and press **OK** to save the timer.

The ORANGE/RED programme timer indicator on the front of the television will be lit (see page 98 for details).

**PLEASE NOTE:** When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled. It will only be possible to create or edit programme timers for the currently tuned DTV input.

## On Timer

The feature allows you to set the television to turn on automatically to a preset channel at a certain time of day or after a certain length of time.

- 1 Press **MENU** / ◀▶ / ▲ / ▼ to highlight **Function / On Timer** icons and press **OK**.
- 2 Press ▲ or ▼ to select **Enable On Timer** and press ◀ or ▶ to select **On**.

On Timer	
Enable On Timer	◀ On ▶
Enable DTV Clock	On
Power On Time	00:00
Repeat	Once
Input	DTV
Channel	12 ABC
Volume	20
Time Until Power On	00:00
Done	

- 3 Press ▼ to select **Enable DTV Clock**, and then press ◀ or ▶ to select **On** or **Off**.
- 4 Press ▲ or ▼ to go through the list adding the details of the On Timer by using the number buttons and ◀ and ▶ to make selections.

**Power On Time** (only for DTV Clock On mode): Set the time you prefer with the number buttons.

**Repeat** (only for DTV Clock On mode): Select the desired On Timer operation (**Once, Every Day, Mon-Fri, Mon-Sat, Sat-Sun**).

**Input:** Select a video input source (ATV, DTV, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC).

**Channel:** Set the channel that will be tuned when the television turns on.

**NOTE:** When an external input is selected in the **Input** field, a channel cannot be selected.

**Volume:** Set the volume that will be applied when the television turns on.

**Time until Power On** (only for DTV Clock Off mode): Set the amount of time from now until the TV turns on using the number buttons (maximum of 12 hours).

- 5 Press ▲ or ▼ to highlight **Done** and press **OK**.

### To cancel the On Timer

- 1 In the **On Timer** menu, select **Enable On Timer**.
- 2 Press ◀ or ▶ to select **Off**.

## Sleep Timer

The television can be set to turn itself **Off** after a certain length of time.

- 1 Press **MENU** / ◀▶ / ▲ / ▼ to highlight **Function / Sleep Timer** icons and press **OK**.
- 2 Use the number buttons to set the desired time. For example, to switch the television off in one and a half hours enter 01:30, or press ▶ / ◀ to increase/decrease in steps of 10 minutes. (Maximum time setting is 12 hours)
- 3 Press **EXIT** to finish.
- 4 To cancel the **Sleep Timer**, enter all zeros for the above setting.

# Energy Saving Settings

## Automatic Power Down

The TV will automatically turn itself off (standby) after 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

- 1
- Press **MENU** / ◀▶ / ▲ / ▶ to highlight **Setup** / **Preferences** icons and press **OK**.
- 2
- Press ▲ or ▼ to select **Energy Saving Settings** and press **OK**.
- 3
- Press ▲ or ▼ to select **Automatic Power Down**.
- 4
- Press ◀ or ▶ to select **On** or **Off**, and press **OK**.

**NOTE:**

- This feature is set to **On** when **Location** is set to **Home**.
- 1 minute before switching to standby, a Warning message will appear.
- When the following features are set, the feature that is set for the nearest time will function.
  - Automatic Power Down
  - Sleep Timer
  - Photo Frame/Auto Power Off
  - Auto shutdown after 1 hour of inactivity (after power on by On Timer)
  - No signal auto power off (after 15 minute of no signal)

## No Signal Power Down

The TV will automatically turn itself off after 15 minutes when no signal is detected. You can change the setting to Off for the following purposes:

- Low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.

- 1
- In the **Energy Saving Settings** menu, press ▲ or ▼ to select **No Signal Power Down** and press **OK**.
- 2
- Press ▲ or ▼ to select the item you want to change and press ◀ or ▶ to select **On** or **Off**.

**NOTE:**

- Default setting is all On.
- A warning message will appear 1 minute before turning off.

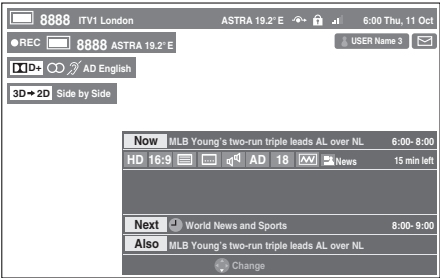
# Digital on-screen information and Programme Guide

When viewing in **digital** mode, the on-screen information and programme guide provide access to programme details for all available channels.

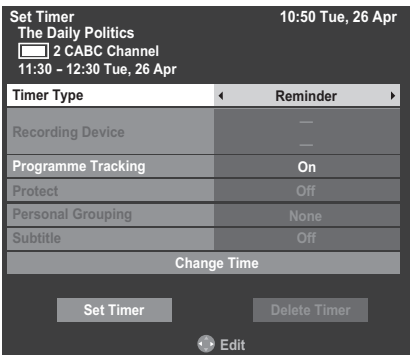
## Information

- 1
- Press **i+**, the information screen will appear giving details of the channel and programme currently being viewed.

**Display Example**



- 2
- Press ▲ or ▼ to select the **"Now"**, **"Next"** or **"Also"** information guide.
- 3
- To record the next scheduled programme, select **"Next"** and press **OK**. The **Set Timer** screen will appear.



- 4
- The details of the programme will already have been added to the timer. Highlight **Set Timer** and press **OK** to save.

To indicate that a Recording Timer has been set, a clock icon will be displayed in the **Next** and **Also** fields of the information screen. A check mark will appear if the timer is a Reminder Timer.

- 5** Press **▼** to select **Also**. Details of programmes that have started on other channels will be provided. Use **◀** or **▶** to change the display contents.

### To display More Information

- 1** Press **QUICK** to open the **Quick Menu**.
- 2** Press **▼** to highlight **More Information** and press **OK**.

### On-screen Information icons

	Icon	Description
Service info		Service type (TV, Radio, Text)
		Skip
Audio info		Mono
		Stereo
		Dual mono
		Multichannel
		Dolby Digital
		Dolby Digital+
	HE-AAC	Audio Coding
Audio/Subtitle info	AD	Audio Description
		For Hard of Hearing
Recording info		Recording + Service info
3D info	3D 3D→2D 2D→3D	Frame Packing Side by Side Top and Bottom
Personal Mode info		Personal Mode (Personal Name)
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
		Multi-audio track
	0, 4 - 18	Parental rating
		Encrypted
Timer info		Recording
		Reminder

### Guide

- 1** Select the on-screen guide by pressing **GUIDE**, and the Guide screen will appear highlighting details of the channel and programme currently being viewed. This may take a few moments to appear.

Thu6	10:50 Tue, 6 Apr				
TV	18:00	18:30	19:00	19:30	20:00
6 M6	LES SIMPSON	LES SIMPSON	TOP MODEL		
9 W9	SUMMERLAND	SUMMERLAND	LES SIMPSON		
11 NT1	Nicky La...	Street fight...	Dragon B...	Dragon B...	K 2000
31 PARIS PREMIERE	MA SORCIE...	HAPPY DAYS	HAPPY DAYS		
34 AB1	Evamag	21 jump street	Jerry Springer Show	City guys	L...
800 FlowerGd 6Mbs					
801 FlowerGd 4Mbs					
802 FlowerGd 2Mbs					
804 Codec 4:3					
806 ITV1					
807 ITV3					
808 ITV2					
809 ITV4					

You can switch the time scale to 1.25 or 2.5 hours by pressing the **GREEN** button.

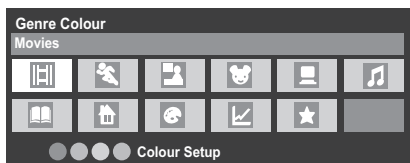
**NOTE:** Channels are displayed in groups by service type (TV, Radio, Text). Pressing the **TV** button will switch the service type.

- 2** Press **◀** or **▶** for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the **RED** button.
- 3** For details of other programmes currently available, press **▲** and **▼** to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press **◀** or **▶** to view information for future programmes.
- 4** For information on a highlighted programme, press **i+**.
- 5** To set the timer for that programme, press the **BLUE** button to bring up the **Programme Timers** menu.
- NOTE:** In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.
- 6** Press **PV** to advance to the next page, or press **PA** to go back to the previous page.

## Genre selection/searching

From the Guide screen, you can use the genre selection and search features.

- 1 In the Guide screen, press **QUICK**.
- 2 Press **▲** or **▼** to highlight **Genre Colour** in the **Quick Menu** and press **OK**.



- 3 With the focus on a particular genre, press the desired coloured button to assign. Four colours will be available to set. Press **BACK** to go back to the Guide screen.
- 4 Press the **YELLOW** button to access the **Genre Search** screen.

Genre Search			
10:50 Tue, 6 Apr			
Movies			
34 AB1	Hard Rain	Wed,27 Apr 0:15- 1:45	
31 PARIS PREMIERE	Red Corner	Wed,27 Apr 22:15- 23:55	
11 NT1	The Lawnmower Man	Thu,28 Apr 1:20- 3:00	
9 W9	A Vow to Kill	Fri,29 Apr 1:30- 3:00	
34 AB1	Parenthood	Sat,30 Apr 0:45- 2:40	
11 NT1	Body and Soul	Sat,30 Apr 1:15- 3:00	
31 PARIS PREMIERE	The Nun's Story	Sat,30 Apr 15:00- 17:30	
9 W9	Red Corner	Sat,30 Apr 23:20- 1:15	
11 NT1	The Real Blonde	Sun,1 May 0:40- 2:00	
31 PARIS PREMIERE	Critters	Sun,1 May 0:40- 2:20	
11 NT1	Indiana Jones and the Temple of Doom	Sun,1 May 21:10- 23:20	
11 NT1	The Jackal	Sun,1 May 23:20- 1:15	
34 AB	Coup De Ville	Mon,1 May 1:10- 3:00	

- 5 Press **◀** or **▶** to select the genre. Programmes listed will change for the new genre. Press **▲** or **▼** to highlight a particular programme.
- 6 When a current programme is selected, pressing **OK** will tune to that programme. When a future programme is selected, pressing **OK** will open the **Set Timer** menu.
- 7 For information on a highlighted programme, press **i+**.
- 8 To exit the **Genre Search** and go back to the Guide screen, press the **YELLOW** button.

## Digital settings – parental control

In order to prevent viewing of unsuitable films and programmes, channels and menus can be locked in digital mode. These can then only be accessed with a security code PIN.

### Parental PIN Setup

- 1 Press **MENU** / **◀▶** / **▲** / **▶** to highlight **Setup** / **System Setup** icons and press **OK**.
- 2 Press **▲** or **▼** to select **DTV Settings** and press **OK**.

System Setup	
Menu Language	English
Country	Germany
Ant/Cable/Satellite	
Satellite Settings	
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	

- 3 Press **▲** or **▼** to highlight **Parental PIN Setup** and press **OK**.

DTV Settings	
Channels	
Subtitle and Audio	
Parental PIN Setup	
Parental Control	
Local Time Setting	
Standby Channel Update	Off
DVB Character Set	Standard
Dynamic Scan	On

- 4 Using the number buttons enter a four digit number. Once entered you will be prompted to confirm by entering again.

Parental PIN Setup	
New PIN:	* * * *
Confirm PIN:	□ □ □ □

The PIN number is now set.

If the PIN code has been set, when **Auto Tuning** and **Reset TV** are executed, entering the PIN will be necessary. "0000" is not acceptable.

## Parental Setup

The **Parental Control** feature allows you to block programmes according to their rating levels. If a PIN has been set, you will need to enter it before adjusting the level.

- 1 In the **DTV Settings** menu, press **▲** or **▼** to select **Parental Control** and press **OK**.
- 2 Press **▲** or **▼** to select **Parental Setup** or **Playback Setup** (if available).  
**Parental Setup:** Select when you want to set viewing restrictions on broadcast programmes.  
**Playback Setup:** Select when you want to set viewing restrictions on playback of programmes recorded to the USB HDD.
- 3 Use **◀** or **▶** to choose an option (**None** or an age setting (4-17 or 4-18 depending on the **Country** setting)).



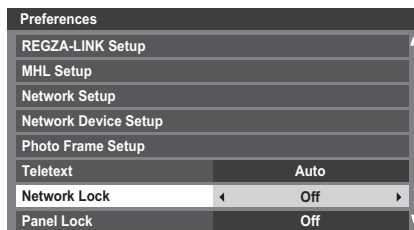
To view blocked programmes, enter the PIN. To reactivate the Parental Control, turn the TV off and then on again.

## Network Lock

You can **use** the **Network Lock** feature to prevent the Web browser from launching. When this feature is set to **On**, PIN input will be necessary to use YouTube.

This feature will be grayed out until a PIN is set.

- 1 Press **MENU** / **◀▶** / **▲** / **▶** to highlight **Setup** / **Preferences** icons and press **OK**.
- 2 Press **▲** or **▼** to select **Network Lock**.



- 3 Press **◀** or **▶** to select **On**.

### To unlock the Network:

- 1 Select **Off** in step 3 above.

## Digital settings – Channel Options

### Selecting favourite channels

**Favourite Channels** creates a list of the **digital** channels that are watched most. Four lists can be created, they can be a mixture of television, radio and text channels.

- 1 Select a channel you want to add to your favourite list.
- 2 Press **QUICK** to open the **Quick Menu**.
- 3 Press **▼** to select **Channel Options** and press **OK**.
- 4 Press **▶** repeatedly to select the favourite list (Fav.1-4).



- 5 Press **OK** to select the ones required. A tick will appear in the box as they are selected.
- 6 Repeat steps 1 through 5 for other channels.
- 7 When all favourites have been selected, press **EXIT**.

### Favourite Channel Lists


- 1 Press **LIST** to display **Channel List**.
- 2 Press **◀** or **▶** to select Favourites 1-4. The number of favourites available depends on how many lists have been created.




- 3 Press **▲** or **▼** to highlight a channel and press **OK** to watch.

## Skip channels


This feature allows you to set channels that will be skipped when **PV** or **PA** are used to tune.

- 1** Select the channel you want to skip in your channel list.
- 2** From the **Quick Menu**, press **▼** to select **Channel Options** and press **OK**.
- 3** Press **►** repeatedly to highlight the skip () box.
- 4** Press **OK** to select. A tick will appear in the box.
- 5** Repeat steps 1 through 4 for other channels.
- 6** Press **EXIT**.

**NOTE:** Skipped channels cannot be selected by **PV** or **PA** but still be accessed by direct number entry (when tuned a  icon will be displayed in the banner to indicate as a skipped channel).

## Locking channels

**Locking Channels** stops the viewing of **digital** channels, and they can only be accessed by entering the **PIN**.

- 1** Select the channel you want to lock in your channel list.
- 2** From the **Quick Menu**, press **▼** to select **Channel Options** and press **OK**.
- 3** Press **►** repeatedly to highlight the lock () box.
- 4** Press **OK** to select. A tick will appear in the box.  
If a PIN has already been set, PIN entry will be required to set the locked channels.
- 5** Repeat steps 1 through 4 for other channels.
- 6** Press **EXIT**.
- 7** From this point on, when any of the channels in the **Locked Channel** list are selected, the PIN must be entered before they can be accessed.

## Digital settings – other settings

### Subtitles

In digital mode, this feature will show subtitles on the screen in the selected language provided they are being broadcast.

- 1** In the **DTV Settings** menu, press **▲** or **▼** to select **Subtitle and Audio** and press **OK**.
- 2** Press **▼** to select **Subtitle Display** and use **◀** or **▶** to select **On** or **Off**.

Subtitle and Audio	
Subtitle Display	◀ Off ▶
Subtitle Type	Normal
Primary Subtitle Language	English
Secondary Subtitle Language	English
Audio Type	Normal
Primary Audio Language	English
Secondary Audio Language	English


- 3** Press **▲** or **▼** to select **Primary Subtitle Language** or **Secondary Subtitle Language** and press **◀** or **▶** to select an option.

The **SUBTITLE** button can be used to select subtitle on or off for the current channel only and to select the subtitle language if more than one subtitle is available.

### Audio languages

This feature allows a programme or film to be viewed with a choice of soundtrack language, provided multiple language tracks are being broadcast.

- 1** In the **Subtitle and Audio** menu, press **▲** or **▼** to select **Audio Type** and press **◀** or **▶** to select **Normal** or **For Hard of Hearing**.
- 2** Press **▲** or **▼** to select **Primary Audio Language** or **Secondary Audio Language** and press **◀** or **▶** to select an option.

If more than one soundtrack is available, use the  button to select between them.

## Common Interface

The *Common Interface Slot*, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For information, see a service provider.

- 1** Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on screen to confirm that the CAM has been inserted.
- 2** Press **MENU** / ◀▶ / ▲ / ▼ to highlight **Setup** / **System Setup** icons and press **OK**.
- 3** Press ▲ or ▼ to select **DTV Settings** and press **OK**.
- 4** Press ▲ or ▼ to select **Common Interface** and press **OK**.
- 5** Details of the CAM should now be available.

### NOTE:

- Software update of a CI Plus CAM may occur automatically if instigated by the broadcaster. This could cause the cancellation of any Reminders/Recordings during this process.
- Some CI or CI+ CAM may not be supported.
- CI+ operation is not guaranteed except for Canal Ready DTT services on suffix FC models.

## Software Upgrade and Licences

### Auto Upgrade

When **Auto Upgrade** is set to **On**, the television will automatically upgrade while in standby if new software is available.

- 1** In the **System Setup** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.
- 2** Press ▲ or ▼ to select **Over-the-air Upgrade** and press **OK**.
- 3** Press ▲ or ▼ to select **Auto Upgrade**.
- 4** Use ◀ or ▶ to select **On** or **Off**.

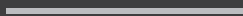
### Searching for New Software

If preferred, software upgrades can be searched for manually using **Search for New Software**.

- 1** In the **System Setup** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.
- 2** Press ▲ or ▼ to select **Over-the-air Upgrade** and press **OK**.
- 3** Press ▲ or ▼ to select **Search for New Software**.
- 4** Press **OK**. The television will automatically start searching for a software upgrade, the progress bar will move along the line.

#### SEARCHING FOR NEW SOFTWARE

Searching for a new software upgrade for this TV.

Searching 

If an upgrade is found, the television will automatically start downloading. If not, a screen will appear stating that an upgrade is unavailable.

## Network Upgrade

*TOSHIBA may offer upgrades for the TV's software in the future.  
The TV's software is upgraded via the Network.*

### Before downloading software:

Configure your TV to connect to the Internet.

**NOTE:** While the upgrade is being performed, you will not be able to watch the TV.

- 1** In the **System Setup** menu, press **▲** or **▼** to select **Software Upgrade** and press **OK**.
- 2** Press **▲** or **▼** to select **Network Upgrade** and press **OK**.  
  
**NOTE:** If the network is not available, a warning message will appear.
- 3** The TV software upgrade will start when download succeeds.

## Software Licences

*The licences for the software used in this television are available for viewing.*

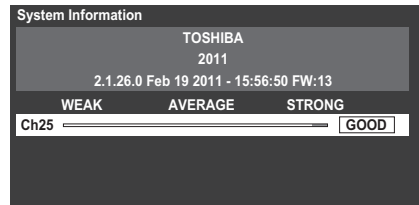
- 1** In the **System Setup** menu, press **▲** or **▼** to select **Software Licences** and press **OK**.  
  
A screen will appear displaying all the licensing information required for the televisions software.

## System Information and Reset TV

### System Information

*This feature can be used to check the version of software currently installed. When in DTV mode, it includes additional diagnostic information such as signal strength, signal quality, centre frequency, modulation, etc.*

- 1** In the **System Setup** menu, press **▲** or **▼** to select **System Information**.
- 2** Press **OK** to display the **System Information**.



- 3** For information about the signal quality of a particular multiplex, press **▲** or **▼** to select that multiplex.
- 4** Press **OK** for a screen showing detailed technical information about the selected multiplex.

### Reset TV

*Selecting **Reset TV** will reset all TV settings, including saved channels, to their original factory values.*

- 1** In the **System Setup** menu, press **▲** or **▼** to select **Reset TV**.
- 2** Press **OK** to select. A screen will appear warning that all settings will be lost. Press **OK** to continue.

When the set powers back on, the **Quick Setup** screen will appear. Press **OK** to advance the setup and perform an auto tune. (See "Quick Setup" section on page 17.)

# PC Settings

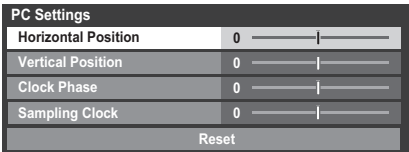
## Horizontal and Vertical Position

Connect the PC (as shown in the 'Connecting a computer' section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.

- 1 Press **MENU** / ◀▶ / ▲ / ▼ to highlight **Setup** / **Preferences** icons and press **OK**.
- 2 Press ▲ or ▼ to select **Display Settings** and press **OK**.
- 3 Press ▲ or ▼ to select **PC Settings** and press **OK**.



- 4 Press ▲ or ▼ to select an option and press ◀ or ▶ to adjust the settings.



## Clock Phase

The **Clock Phase** matches the PC signal with the LCD display. Adjusting this can clear horizontal stripes and picture blur.

- 1 In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- 2 Press ▲ or ▼ to select **Clock Phase**.
- 3 Press ◀ or ▶ to adjust until the picture clears.

## Sampling Clock

Adjusting the **Sampling Clock** alters the number of pulses per scan, this will clear vertical lines on the screen.

- 1 In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- 2 Press ▲ or ▼ to select **Sampling Clock**.
- 3 Press ◀ or ▶ to adjust until the picture clears.

## Reset

Use **Reset** to return all items to the original factory settings.

- 1 In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- 2 Press ▲ or ▼ to select **Reset** and press **OK**.

**NOTE: When a PC is connected using HDMI, none of these functions will be available.**


The screen is disrupted momentarily when adjusting PC Settings. This is not a sign of malfunction.

The default settings and adjustment ranges may vary depending on the input signal format.

# Input selection and AV connections


See page 10 for a detailed image showing recommended connections.


Most media recorders and decoders send a signal through the SCART lead to switch the television to the correct *Input* socket.




Alternatively, press the external source selection button  until the picture from connected equipment is shown.


## Input selection




Use the *Input Selection* window if the television does not switch over automatically.

- 1
- By pressing  on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Pressing  on the remote control

Inputs
TV
 1
 2
 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC

Pressing  on the TV

Inputs
DTV Ant (or Cable) TV *
DTV Ant (or Cable) Radio *
DTV Ant (or Cable) Text *
DTV Sat TV *
DTV Sat Radio *
DTV Sat Text *
 1
 2
 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC
ATV






\* If radio or text channels are currently available for DTV.

HDMI\* displays equipment connected to *Input HDMI* on the back or side of the television.



PC displays a computer connected to *Input RGB/PC* on the back of the television.

## External input skip



This feature is designed to make input selection more convenient by allowing you to skip unused inputs.




- 1
- Press **MENU** /  /  /  to highlight **Setup / Preferences** icons and press **OK**.
- 2
- Press  or  to select **AV Connection**.


Preferences	
Network Setup	
Network Device Setup	
Photo Frame Setup	
Teletext	Auto
Network Lock	
Panel Lock	Off
Display Settings	
AV Connection	

- 3
- Press **OK** to display the **AV Connection** menu.
- 4
- Press  or  to highlight **Input Labeling** and press **OK**.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	PC
Side Shared Audio	EXT 2
HDMI 3 Audio	Digital
HDMI Settings	
Digital Audio Output	

- 5
- Press  or  to select the input you want to skip, and then press the **RED** button to turn on the skip.

Input Labeling		
Input	Label	
EXT 1	 -- 	
EXT 2	--	
EXT 3	--	
HDMI 1	--	
HDMI 2	--	
HDMI 3	--	
HDMI 4	--	
PC	--	

- 6
- To turn off the skip, press the **RED** button again.
- The input set to Skip is grayed out in the Input Selection window and is skipped over when you press  on the remote control.

## Labeling video input sources

These input labels are shown in the input selector. You can label video inputs according to the devices you have connected to the TV.

- 1 Press **MENU** / ◀▶ / ▲ / ▼▶ to highlight **Setup** / **Preferences** icons and press **OK**.
- 2 Press ▲ or ▼ to select **AV Connection** and press **OK**.
- 3 Press ▲ or ▼ to select **Input Labeling** and press **OK**.

Input Labeling	Input	Label	
	EXT 1	◀ -- ▶	
	EXT 2	--	
	EXT 3	--	
	HDMI 1	--	
	HDMI 2	--	
	HDMI 3	--	
	HDMI 4	--	
	PC	--	

- 4 Press ▲ or ▼ to highlight the item you want to label, and then press ◀ or ▶ to select --, **Amplifier**, **Cable**, **DVD**, **Game**, **PC**, **Recorder**, **Satellite** or **VCR**, or press the **GREEN** button to select **User Input**.

**NOTE:** When **User Input** is selected by pressing the **GREEN** button, the **Software Keyboard** window will appear. Input the desired characters (10 characters or less) by using the **Software Keyboard** (see page 51) or using the number buttons for a number input. To save your settings, press the **BLUE** button.

- 5 Repeat step 4 for other video inputs.

## PC Audio

In order to receive sound from a connected PC, plug the audio cable into the back of the television (as shown in the 'Connecting a computer' section), and then use the **PC/HDMI 3 Audio** setting.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.
- 2 Press ▲ or ▼ to select **PC/HDMI 3 Audio** and press ◀ or ▶ to select the **PC** option.

**NOTE:** Selecting the **PC** option will force HDMI 3 Audio to Digital mode.

## Side Shared Audio

The **AUDIO** terminals for the **COMPONENT VIDEO INPUT (EXT 2)** and **VIDEO INPUT (EXT 3)** are shared.

Select an appropriate option (EXT 2 or EXT 3) for the input that you are using.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.
- 2 Press ▲ or ▼ to highlight **Side Shared Audio**, and then press ◀ or ▶ to select **EXT 2** or **EXT 3**.

## HDMI 3 Audio

If the connected HDMI source does not support digital audio, plug the audio cable into **PC/HDMI 3 (AUDIO)** on the back of the television (as shown in the 'Connecting an HDMI® or DVI device to the HDMI input' section on page 11), then use the **HDMI 3 Audio** setting.

- 1 In the **Preferences** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.
- 2 Press ▲ or ▼ to select **HDMI 3 Audio** and press ◀ or ▶ to select **Auto** or **Analogue**.

<b>AV Connection</b>	
<b>Input Labeling</b>	
<b>PC/HDMI 3 Audio</b>	<b>PC</b>
<b>Side Shared Audio</b>	<b>EXT 2</b>
<b>HDMI 3 Audio</b>	◀ <b>Auto</b> ▶
<b>HDMI Settings</b>	
<b>Digital Audio Output</b>	

If the sound is absent, try selecting a different setting.

**NOTE:** HDMI 3 supports digital and analogue sound, HDMI 1, HDMI 2 and HDMI 4 are digital sound only.

Certain DVD disk formats may not output from this TV (32/44.1/48kHz and 16/20/24 bits are acceptable).

HDMI Settings

Some early HDMI equipment may not work properly with your HDMI TV. Please try setting the **Enable Content Type** and **INSTAPORT™** options to **Off**. Adjusting these settings should allow your early HDMI source to operate properly with your television.

- 1
- In the **Preferences** menu, press **▲** or **▼** to select **AV Connection** and press **OK**.
- 2
- Press **▲** or **▼** to select **HDMI Settings** and press **OK**.  
**NOTE:** **HDMI Settings** is grayed out on non-HDMI inputs.
- 3
- Press **▲** or **▼** to select an item and press **◀** or **▶** to select a setting.

HDMI Settings		
Enable Content Type	◀	On ▶
INSTAPORT™		On
RGB Range		Auto

- **Enable Content Type: On**  
When set to On, the TV will automatically adjust settings according to the content type data sent from the connected HDMI device.
- **INSTAPORT™: On**  
This feature reduces the lag time when switching HDMI sources.
- **RGB Range: Auto**  
This feature adjusts RGB full range signal automatically. When **Limited** is selected, RGB signal is output in the range from 16 to 235. When **Full** is selected, RGB signal is output in the range from 0 to 255.

- NOTE:**
- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz or supports Deep Colour, you will need a Category 2 cable. Conventional HDMI/DVI cables may not work properly with this mode.
- All of the above HDMI settings need proper HDMI source devices.  
If the HDMI source products do not support these features, the television may not work properly by activating these features.

Digital Audio Output

When connecting a surround sound amplifier to the digital audio output (Sony/Philips Digital Interface Format [S/PDIF]), the following options can be selected or adjusted.

- 1
- In the **Preferences** menu, press **▲** or **▼** to select **AV Connection** and press **OK**.

- 2
- Press **▲** or **▼** to select **Digital Audio Output**.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	PC
Side Shared Audio	EXT 2
HDMI 3 Audio	Auto
HDMI Settings	
Digital Audio Output	

- 3
- Press **OK** to display **Digital Audio Output** menu and press **▲** or **▼** to select an option.

**Audio Format:**  
Press **◀** or **▶** to select **PCM** or **Auto**.

- PCM:** This mode outputs PCM format to the digital audio output socket.
- Auto:** This mode outputs Dolby Digital (if available) or PCM to the digital audio output socket.  
Dolby Digital → Dolby Digital  
Dolby Digital Plus → Dolby Digital  
MPEG → PCM  
HE-AAC → Dolby Digital

**Audio Delay:**  
Press **◀** or **▶** to select **Auto** or **Manual**.

- Auto:** This mode automatically adjusts the audio timing to meet the video timing.  
**NOTE:** The time lag might be large between the image and sound depending on the connected equipment (amplifier etc.). In that case, select **Manual**.
- Manual:** You can manually adjust the audio signal timing to meet the video signal timing.

**Delay Adjustment:**  
Press **◀** or **▶** to adjust the audio signal timing (0 – 250ms) to meet the video signal timing.

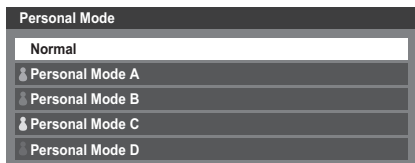
- NOTE:**
- This feature is grayed out when **Audio Delay** is in **Auto**.
- A time lag will occur when the video signal or audio signal is changed. Adjust the timing accordingly.
- When adjusting the timing, turn down the volume of the AV equipment used as far as possible. Depending on the equipment, noise etc. may occur when the signal is changed.
- Depending on the connected equipment (amplifier, etc.), adjustment may not be possible.
- When the optical digital output setting (Auto ↔ PCM) is changed, it may be necessary to adjust the timing again.
- Do not use other than for audio output from the AV amplifier, etc. (Malfunction may occur)

## Using Personal TV Mode

You can customize some TV functions as desired and those settings can be saved in one of 4 Personal Modes (A to D). The Personal Mode can be selected from the **Quick Menu**.

### To select the Personal Mode

- 1 Press **QUICK** to open the **Quick Menu**.
- 2 Press **▲** or **▼** to select **Personal Mode** and press **OK**.

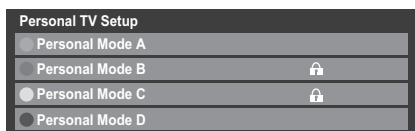


- 3 Press **▲▼** or corresponding coloured button to select individual Personal Mode from **Normal**, **Personal Mode A**, **Personal Mode B**, **Personal Mode C** and **Personal Mode D**. The mode will default to **Normal** every the TV is turned off and on.

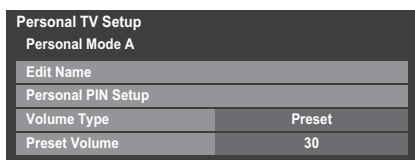
**NOTE:** If the Personal PIN has been set, the Lock icon will be displayed. If the Personal PIN entry screen is displayed, enter the correct Personal PIN.

### Personal TV Setup

- 1 Press **MENU** / **◀▶** / **▲** / **▼** to highlight **Setup/Preferences** icons and press **OK**.
- 2 Press **▲** or **▼** to select **Personal TV Setup** and press **OK**.



- 3 Press **▲** or **▼** (or corresponding coloured button) to select the individual Personal Mode and press **OK**.



### Edit Name

You can edit the name of your Personal Mode. Press **▲** or **▼** to select **Edit Name** and press **OK**. Edit the desired name by using the software keyboard (see page 51). The maximum number of characters is 25.

### Personal PIN Setup

Press **▲** or **▼** to select **Personal PIN Setup** and press **OK**. Enter your personal PIN in same manner as "Parental PIN Setup" on page 81.

### Volume Type

Press **▲** or **▼** to select **Volume Type** and press **◀** or **▶** to select **Preset** or **Last**.

**Last** — The last volume level in your Personal Mode.

**Preset** — The Preset volume level is selected whenever the Persona Mode is switched.

### Preset Volume

Press **▲** or **▼** to select **Preset Volume** and press **▲** or **▼** to adjust your desired volume level. When the **Volume Type** is set to **Last**, this feature will be grayed out.

### Behaviour in Personal Mode

#### • Personal Favourite Channel List (Fav5 - Fav8):

Normal Mode: Fav1 / Fav2 / Fav3 / Fav4

**Personal Mode A:** Fav5

**Personal Mode B:** Fav6

**Personal Mode C:** Fav7

**Personal Mode D:** Fav8

Press the **LIST** button to display Channel List and press **◀** or **▶** to select **All** or your Personal Mode (**Fav5** – **Fav8**)

#### • Personal Picture Mode:

The Picture Mode you selected is stored in your Personal Mode.

#### • Personal Volume:

The sound volume you set is stored in your Personal Mode.

### Personal Grouping of Recorded Programmes

When switching between Personal Modes, recordings (OTR, TimeShift, Timer Recording) will be displayed categorically in the Library by Personal Mode.

Programmes recorded in Personal Mode A/B/C/D with OTR or TimeShift will be saved remembering the Personal Grouping corresponding to each respective mode.

When user performs a Timer Recording while in Personal Mode A/B/C/D, after the transition to Set Timer, make the Default for Personal Grouping (a Set Timer setting item) be a selection item corresponding to whatever mode you are in.

When you perform OTR, TimeShift, or Timer Recording while in Normal Mode, the Personal Grouping for recorded programmes will be remembered as "None."

## Using REGZA-LINK

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the television remote control via HDMI connection (page 12).

When the **Enable REGZA-LINK** item in the **REGZA-LINK Setup** menu is set to **On**, individual functions also set to **On** will be activated.

### Enable REGZA-LINK

- 1 Press **MENU** / ◀▶ / ▲ / ▼ to highlight **Setup** / **Preferences** icons and press **OK**.
- 2 Press ▲ or ▼ to select **REGZA-LINK Setup** and press **OK**.
- 3 Press ▼ to select **Enable REGZA-LINK** and press ◀▶ or ▶ to select **On**.

REGZA-LINK Setup	
Enable REGZA-LINK	◀ On ▶
TV Auto Power	On
Auto Standby	On
Amplifier Control	On
Initial Speaker Setting	TV Speakers
Position Key Pass Through	

**NOTE:** If you set **Enable REGZA-LINK** to **Off**, all other items will be grayed out.

### TV Auto Power

The **TV Auto Power** setting allows the television to be automatically switched on if a REGZA-LINK device is turned on.

- 1 In the **REGZA-LINK Setup** menu, press ▼ to highlight **TV Auto Power**.
- 2 Press ◀▶ to select **On** or **Off**.

### Auto Standby

When **Auto Standby** is enabled, the television, when switched off, will automatically switch off (standby mode) all connected REGZA-LINK equipment.

- 1 In the **REGZA-LINK Setup** menu, press ▼ to highlight **Auto Standby**.
- 2 Press ◀▶ to select **On** or **Off**.

### Amplifier Control

When **Amplifier Control** is set to **On**, it allows the "Initial Speaker Setting" feature to become available.

- 1 In the **REGZA-LINK Setup** menu, press ▼ to highlight **Amplifier Control**.
- 2 Press ◀▶ to select **On** or **Off**.

### Initial Speaker Setting

This feature allows the audio output preference to be set to the TV speakers or AV amplifier speakers. The AV Amplifier option lets the television's remote control adjust or mute the volume of the audio.

- 1 In the **REGZA-LINK Setup** menu, press ▼ to highlight **Initial Speaker Setting**.
- 2 Press ◀▶ to select **TV Speakers** or **Amplifier**.

### Position Key Pass Through

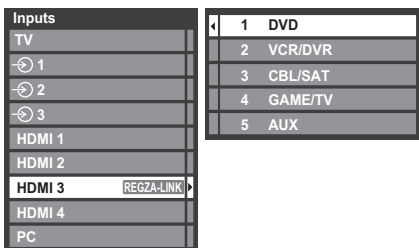
When **Position Key Pass Through** for the selected HDMI input mode is set to **On**, the **P▲P▼** and number (0-9) keys on the remote control will pass through. When in **Off**, those operate as TV programme selection keys.

- 1 In the **REGZA-LINK Setup** menu, press ▼ to highlight **Position Key Pass Through** and press **OK**.
- 2 Press ▲ or ▼ to select the appropriate HDMI mode.
- 3 Press ◀▶ to select **On**.

## REGZA-LINK input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. AV amplifier) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device on the input source list.

- 1 Press and a list will appear on screen showing available input sources.
- 2 Press to select the desired input source with REGZA-LINK icon.
- 3 Press and a second selection screen will appear showing all connected REGZA-LINK equipment.



- 4 Press or to select the desired input source, and then press **OK**.

### NOTE:

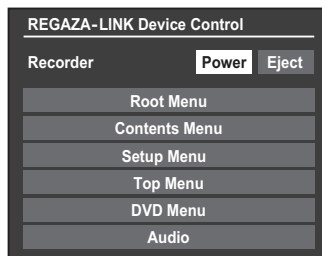
- These functions depend on the device connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.
- When the television is switched on it will take a few minutes for the REGZA-LINK icon to appear in the list. When an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected equipment is changed, **Enable REGZA-LINK** in the REGZA-LINK Setup menu may need to be reset to **On**.
- If you change the HDMI lead to a connected device or change an HDMI device setting, reset the **Enable REGZA-LINK** item on the REGZA-LINK Setup menu from **Off** to **On**.

## REGZA-LINK Device Control

With the REGZA-LINK mode on your television's remote control, you can control the connected REGZA-LINK device you are watching.

To control the REGZA-LINK input source first select the equipment by REGZA-LINK input source selection.

- 1 Press **QUICK** to open the **Quick Menu**.
- 2 Press or to select **REGZA-LINK Device Control** and press **OK**.



- 3 Press or to select a control option and press **OK**.

**NOTE:** The available functions depend on the equipment connected. Please refer to the operation manual for each piece of equipment connected.

## REGZA-LINK one touch play

When connected equipment is switched on, REGZA-LINK will automatically detect the television through the input selection. If the television is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 91).

### NOTE:

- Even if the equipment is showing a menu, the television may automatically show the input source.
- This feature depends on the connected equipment and television state.

## REGZA-LINK system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the REGZA-LINK devices connected to the television.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 91).

**NOTE:** This feature depends on the connected equipment and television state.

## REGZA-LINK system audio control

With your television's remote control, you can adjust or mute the sound volume of the speakers connected to the television via an AV amplifier.

- 1** Set the **Initial Speaker Setting** to **Amplifier** in the **REGZA-LINK Setup** menu.
- 2** Confirm that a connected REGZA-LINK device (such as a DVD player, etc) is selected for the AV amplifier input source.

### NOTE:

- These functions depend on the device connected.
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected. Turn the television off and on again to output the sound from the TV Speakers.
- This feature may not work if the AV amplifier is operated.

## Toshiba PC compatible with REGZA-LINK

This feature automatically adjusts the suitable widescreen formats and picture preferences when connected to a Toshiba PC compatible with REGZA-LINK.

**NOTE:** This feature depends on the connected equipment state.

## Using MHL TV function

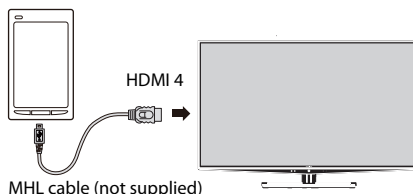
You can use the following functions by connecting between the TV HDMI 4 port and an USB port of mobile phones etc. with a MHL cable.

- Charge with mobile phone from TV
- Two-way remote operation between TV and mobile phone
- Video/Audio output from mobile phone

**NOTE:** These functions may not be available depending on the connected equipment.

## Connecting an MHL-compatible Device

Connect the device to the HDMI 4 port on the TV using an MHL cable (not supplied).



- When you connect an MHL-compatible device to the HDMI 4 port on the TV with the MHL cable, charging starts automatically.

**NOTE:** Do not connect an MHL-compatible device to any port other than the HDMI 4 port.

## Operating an MHL-compatible Device

When an MHL-compatible device is connected to the HDMI 4 port on the TV, input automatically switches to the HDMI 4 port.

Operate the device using the remote controller for the TV. To display photos, select the photos using **▲▼◀▶** and press **OK**. To play a video, press **▶** (play).

Depending on the connected MHL-compatible device, it may be possible to perform operations from the device.

## MHL Setup

Select whether or not input automatically switches to the HDMI 4 port when an MHL-compatible device is connected.

- 1** Press **MENU** / **◀▶** to highlight **Setup** icon.
- 2** Press **▲** / **◀▶** to highlight **Preferences** icon and press **OK**.
- 3** Press **▲** or **▼** to select **MHL Setup** and press **OK**.
- 4** Press **◀** or **▶** to select **On** or **Off**.

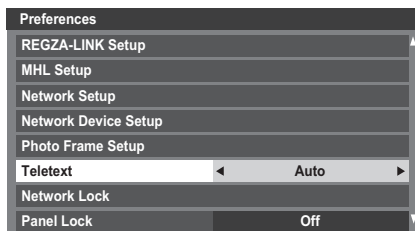
## Text services

This television has a multi-page text memory, which takes a few moments to load. It offers two **Modes** of viewing text – **Auto** will display **Fasttext**, if available. **List** will save your four favourite pages.

### Selecting modes

*The text character set will be automatically chosen by the language setting in the **Setup** menu.*

- 1** Press **MENU** / ◀▶ / ▲ / ▼ to highlight **Setup** / **Preferences** icons and press **OK**.
- 2** Press ▲ or ▼ to select **Teletext**, and then press ◀ or ▶ to select **Auto** or **List**.



### Text information

#### The TEXT button:

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Channels cannot be changed until text is cancelled.

The first text page shown will be the *initial* page.

Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing **P▲** to advance to the next page and **P▼** to go back to the previous page.

#### Sub-pages

The pages on the screen will dynamically update as sub-pages are received.

If you open a page containing sub-pages, the sub-pages are automatically displayed in sequence. To quit automatic sub-page change, press ◀ or ▶.

Once selected, the sub-page you are viewing will be highlighted and, as the television loads any additional sub-pages, the colour of the numbers will change, indicating that these pages have been loaded.

These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

### Navigating pages using Auto

If **Fasttext** is available, four coloured titles will appear at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control.

For further information on your particular text system(s), see the broadcast text index page or consult your local Toshiba dealer.

### Navigating pages using LIST

The four coloured choices at the bottom of the screen are numbers – 100, 200, 300 and 400, which have been programmed into the television's memory. To view these pages, press the relevant coloured buttons.

To change these saved pages, press the relevant coloured button and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Press **OK** to save. **Whenever OK is pressed, all four page numbers showing at the bottom will be saved and the previous ones will be lost.**


If **OK** is not pressed, the selection will be forgotten when the channel is changed.

Other pages may be viewed by entering the 3 digit page number – but DO NOT press **OK** or these pages will be saved.

## Control buttons

Below is a guide to the functions of the remote control text buttons.


### **To display the index/initial page:**

Press  to access the index/initial page. The one displayed is dependant on the broadcaster.



### **TEXT To display a page of text:**

Press **TEXT** to display text. Press again to superimpose text over a normal picture. Press again to return to normal television viewing. Channels cannot be changed until this has been done.


### **To reveal concealed text:**

To discover the solutions on quiz and joke pages press the  button.



### **To hold a wanted page:**

At times it is convenient to hold a page of text. Press  and  will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

### **To enlarge the text display size:**

Press  once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

### / **To select a page whilst viewing normal picture:**

Enter the page number then press /  normal picture will be displayed. The television will indicate when the page is ready by changing the colour of the page number at the top of the screen. Press **TEXT** to view the page.

#### *To display news flashes:*

Select the news flash page for the chosen text service (see the index page of text service). The news flashes will be displayed as and when they are broadcast.



**Remember to cancel text before changing channels - press the TEXT button twice.**

# Questions and Answers

Below are the answers to some of the most common queries.

**Q** *Why is there no sound or picture?*

**A** Check the television is not in standby mode. Check the mains plug and all mains connections.

**Q** *There is a picture, but why is there little or no colour?*

**A** When using an **external** source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The colour is factory set to **Auto** to automatically display the best colour system.

To check that you have the best colour:

- 1** With the external source playing, select **Colour System** from the **System Setup** menu.

System Setup	
Menu Language	English
Country	Germany
Colour System	Auto

- 2** With ◀ or ▶ choose between **Auto**, **PAL**, **SECAM**, **NTSC 4.43** or **NTSC 3.58**.

**Q** *Why doesn't the video/DVD being played show on screen?*

**A** Make sure the media recorder or DVD player is connected to the television as shown on page 10, and then select the correct input by pressing **◀**.

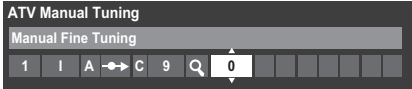
**Q** *Why is there a picture but no sound?*

**A** Check all lead connections.  
No sound or unacceptable format sound may be received.  
Check the volume has not been turned down or that sound mute has not been selected.  
Check shared audio settings.

**Q** *What else can cause a poor picture?*

**A** Interference or a weak signal. Try a different television station. **Manual Fine Tuning** may help.

- 1** Select the **ATV Manual Tuning** menu. Highlight the station and press **OK**. Then press ▶ to select **Manual Fine Tuning**.
- 2** Using ▲ or ▼ adjust to get the best picture and sound. Press **OK** and then **EXIT**.



**Q** *Why don't the controls of the television work?*

**A** Check that **Panel Lock** is not **On**.

**Q** *Why doesn't the remote control work?*

**A** Check that the batteries aren't dead or inserted incorrectly.

**Q** *Why is the digital channel locked?*

**A** The channel has been locked in **Channel Options** (see 'Digital settings – Channel Options' section).

**Q** *Why are some of the digital subscription channels unavailable?*

**A** Your subscription needs upgrading. Contact your service provider.

**Q** *Why is the soundtrack in English when a different audio language has been selected?*

**A** The programme is currently being broadcast with an English soundtrack only.

**Q** *Why is there incorrect or no sound when in DTV mode?*

**A** Press **◻/◻** to ensure the hard of hearing option has not been selected.

**Q** *What is DVB-T?*

**A** Digital Video Broadcast via an aerial/antenna.

**Q** *What is DVB-C?*

**A** Digital Video Broadcast via a cable connection.

**Q** *How are radio channels selected?*

**A** Press **TV** on the remote control and select **DTV Radio**. Alternatively select from the **GUIDE**.

**Q** *What can be done if the PIN number has been forgotten?*

**A** Use the Master PIN code of 1276, then change to a number of your choice. Select **Parental PIN Setup** from the **DTV Settings** menu to enter PIN. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.

**Q** *Why are there vertical stripes on the screen when in PC mode?*

**A** The **Sampling Clock** may need adjustment. Select **PC Settings** from the **Display Settings** menu, highlight **Sampling Clock** and adjust until the lines clear.

**Q** *Why are there horizontal stripes and/or blurred images on the screen when in PC mode?*

**A** The **Clock Phase** may need adjustment. Select **PC Settings** from the **Display Settings** menu, highlight **Clock Phase** and adjust until the picture clears.

**Q** *Why when digital subtitles have been selected are they not showing on screen?*

**A** Subtitles are not currently being transmitted by the broadcaster.

**Q** *Why is there no digital text service?*

**A** The **digital** programme being viewed is not broadcasting digital text. Try another **digital** programme.

**Q** *Why are there problems with analogue text?*

**A** Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the *main index* page of the text service and look for the *User Guide*. This will explain the basic operation of text in some detail. If further information is needed on how to use text see *the text section*.

**Q** *Why are the four coloured text numbers visible but no text?*

**A** Text has been selected while viewing an external source i.e. DVD or VCR. No text will appear on screen or a box may appear stating no information is available. Select a broadcasting channel and press **[i]** to access.

**Q** *Why is a page number visible at the top of the screen but no text?*

**A** Text has been selected but Teletext information is currently unavailable on the current source.


**Q** *Why are the colours wrong when an NTSC source is played?*

**A** Connect the source via a SCART lead and play. Select **Colour System** from the **System Setup** menu.

**1** Set the Colour to **Auto** and exit.

**2** Go to the **Picture** menu and adjust the tint.

**Q** *Why don't the devices connected via HDMI operate properly?*

**A** Make sure to use cables with the HDMI logo  (see page 11).

Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption. Try switching the HDMI settings (**Enable Content Type** and **INSTAPORT™**) to **Off**.

**Q** *Why don't the devices connected via MHL operate properly?*

**A** Turn off your TV and unplug the power cord, and then plug and turn on again.  
Turn the MHL Source Power Off and On again.

**Q** *Why don't the REGZA-LINK devices work?*

**A** When the connected REGZA-LINK device does not work correctly after you have changed the settings of the device, turn off your television and unplug the power cord, and then plug and turn on again. Unplug the HDMI cable of the REGZA-LINK device and lead again.

**Q** *Why is the REGZA-LINK logo still showing when the equipment has been disconnected?*

**A** If the REGZA-LINK device is disconnected, the logo will disappear after approximately one minute.

## Q Why don't the networked devices work?

**A** The LAN cables are not connected properly or at all. Connect all cables (see page 14). Check the settings under the **Network Setup** menu (see page 47).

## Q Why doesn't the Media Player feature operate?

**A** Make sure that devices are connected correctly. Incorrect behaviour may occur with a USB Hub connection. Check your network setup if using DLNA CERTIFIED™ Server.

## Q Why are not 3D images displayed?

**A** Press **3D** on the remote control and select **3D**. Check **3D Auto Start** in **3D Setup** menu (see page 32).

## Q Why doesn't the USB HDD work?

**A** Register your USB HDD. Use the USB 2 port to connect the USB HDD. Your country/area may not support the USB HDD function.

## Q What do the LEDs on the front of the television indicate?

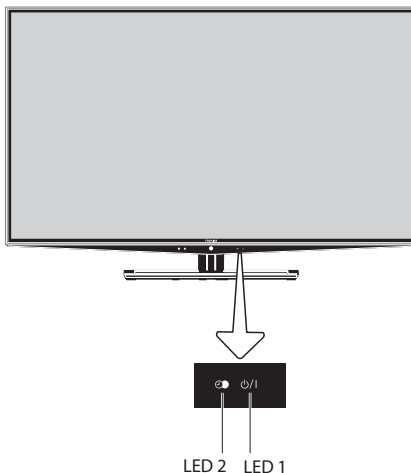
**A** Check the table below.

LED indication		Condition	Solution
LED-1	LED-2		
Green	Orange	Power ON Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	—
Green	Red	Power ON Programme Timer (Recording) or Recording is working	—
Green	OFF	Power ON Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	—
Red	Orange	Power OFF (Standby) Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	—
Red	Red	Power OFF (Standby) Programme Timer (Recording) or Recording is working	—

## Other problems







If your TV's problem is not addressed in this Questions and Answers section or the recommended solution has not worked, do one of the following:

- 1 Turn off your TV. After 30 seconds, turn it on.
- 2 Turn off the TV and unplug the power cord. After 1 minute, plug the power cord in and turn on the TV.
- 3 Perform the Reset Factory Defaults procedure (see page 85).



LED indication		Condition	Solution
LED-1	LED-2		
Red	OFF	Power OFF (Standby) Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	—
OFF	Green (Blinks)	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
Red (Blinks)	OFF	Abnormal operation of WDT.	
Green (Blinks)	OFF	Fan stopped. (if applicable)	
Orange	Green	For Service SW Upgrade in Progress	—
Red	OFF	For Service SW Upgrade Failed	—
Green	OFF	For Service SW Upgrade Successful	—

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- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- 
 Audyssey EQ technology
- Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories.  
 Audyssey EQ is based on the same core technology as Audyssey MultEQ that is used for automatic correction of room acoustics. Audyssey EQ uses time-domain filters to correct problems that arise from speaker drivers and enclosures and is calibrated to account for the acoustical problems in a typical listening environment.
- Hybrid TV Standard is implemented according to ETSI TS 102 796 v1.1.1.

### Cleaning the screen and cabinet...

Turn off the power, and clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

### Disposal...

*The following information is only for EU-member states:*

#### Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

#### Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.



## Information

**Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.**

### Signal information for Mini D-sub 15 pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	NC
2	G	7	Ground	12	NC
3	B	8	Ground	13	H-sync
4	NC*	9	NC	14	V-sync
5	Ground	10	Ground	15	NC

\* NC = not connected

### Acceptable PC signals through the PC terminal

The PC input on this TV only accepts signal formats which are compliant with VESA-DMT as shown in the table below. Since some PCs input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC to conform to a signal in the table below.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard (DMT)
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz	●
		72.809Hz	37.861kHz	31.500MHz	●
		75.000Hz	37.500kHz	31.500MHz	●
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	●
		60.317Hz	37.879kHz	40.000MHz	●
		72.188Hz	48.077kHz	50.000MHz	●
		75.000Hz	46.875kHz	49.500MHz	●
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	●
		70.069Hz	56.476kHz	75.000MHz	●
		75.029Hz	60.023kHz	78.750MHz	●
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	●
		59.870Hz	47.776kHz	79.500MHz	●
		74.893Hz	60.289kHz	102.250MHz	●
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	●
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	●
		75.025Hz	79.976kHz	135.000MHz	●

# Acceptable video or PC signals through the HDMI terminals

The HDMI inputs on this TV only accept VGA, SVGA, XGA, WXGA, and SXGA signal formats which are compliant with VESA as shown in the table below. Since some PCs and HDMI or DVI devices input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC, HDMI or DVI device to conform to a signal in the table below.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard
480i	720 × 480i	59.940/60.000Hz	15.734/15.750kHz	27.000/27.027MHz	
576i	720 × 576i	50.000Hz	15.625kHz	27.000MHz	
480p	720 × 480p	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz	
576p	720 × 576p	50.000Hz	31.250kHz	27.000MHz	
1080i	1920 × 1080i	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz	
1080i	1920 × 1080i	50.000Hz	28.125kHz	74.250MHz	
720p	1280 × 720p	59.940/60.000Hz	44.955/45.000kHz	74.176/74.250MHz	
720p	1280 × 720p	50.000Hz	37.500kHz	74.250MHz	
1080p	1920 × 1080p	59.940/60.000Hz	67.433/67.500kHz	148.352/148.500MHz	
1080p	1920 × 1080p	50.000Hz	56.250kHz	148.500MHz	
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz	
VGA	640 × 480	59.940/60.000Hz	31.469/31.500kHz	25.175/25.200MHz	●
		72.809Hz	37.861kHz	31.500MHz	●
		75.000Hz	37.500kHz	31.500MHz	●
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	●
		60.317Hz	37.879kHz	40.000MHz	●
		72.188Hz	48.077kHz	50.000MHz	●
		75.000Hz	46.875kHz	49.500MHz	●
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	●
		70.069Hz	56.476kHz	75.000MHz	●
		75.029Hz	60.023kHz	78.750MHz	●
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	●
		59.870Hz	47.776kHz	79.500MHz	●
		74.893Hz	60.289kHz	102.250MHz	●
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	●
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	●
		75.025Hz	79.976kHz	135.000MHz	●

## Media Player Supported Format

Media Player	Media Format	File Extension	Video/Audio codec	USB	DMS	Note
Photo	JPEG	.jpg .jpeg	JPEG	Yes	Yes	<b>&lt;USB&gt;</b> <b>Data compatibility:</b> JPEG Exif ver 2.2 <b>Maximum viewable resolution:</b> 4096 x 4096 (HW decode) 16384 x 16384 (SW decode) <b>Maximum photo size:</b> 9MB <b>Maximum number of files:</b> 2000 / folder <b>&lt;DMS&gt;</b> <b>Data compatibility:</b> JPEG EXIF Ver.1.x or later, JFIF 1.02a <b>Maximum photo resolution:</b> 4096 x 4096 <b>Maximum photo size:</b> 6 MB <b>Maximum number of files:</b> 2000 / folder
	MPO	.mpo	JPEG	Yes	No	
Movie	MPEG-2 PS MPEG-2 TS	.mpg .mpeg .ts	Video) MPEG-1 Video	Yes	No	<b>&lt;USB&gt;</b> <b>Maximum number of files:</b> 2000 / folder <b>&lt;DMS&gt;</b> <b>Maximum number of files:</b> 2000 / folder *) Some files may not be played. *) Normal playing and trick playing may not be available depending on the contents. *) Div X external subtitles are not supported.
			Video) MPEG-2 Video H.264 (MPEG-4 AVC)	Yes	Yes	
			Audio) MPEG-1 Layer1 MPEG-1 Layer2 MPEG-2 Layer2 Dolby Digital (AC-3) L-PCM (MPEG-2 PS only)	Yes	Yes	
			Audio) Dolby Digital Plus AAC HE AAC	Yes	No	
	MP4	.mp4 .m4v	Video) H.264 (MPEG-4 AVC)	Yes	Yes	
			Audio) AAC	Yes	Yes	
			Audio) HE AAC Dolby Digital (AC-3) Dolby Digital Plus	Yes	No	
	AVI DivX DivX Plus HD	.avi .divx .div	Video) DivX (3,4,5,6)	Yes	No	
			Audio) Dolby Digital (AC-3) MPEG-1 Layer2 MPEG-1 Layer3	Yes	No	
	MKV DivX Plus HD	.mkv	Video) H.264	Yes	No	
			Audio) AAC HE AAC Dolby Digital (AC-3) MPEG-1 Layer 3	Yes	No	
	ASF	.asf .wmv	Video) VC-1	Yes	No	
			Audio) WMA	Yes	No	
	AVCHD	.mts .m2ts	Video) H.264 (MPEG-4 AVC)	Yes	Yes	
			Audio) Dolby Digital (AC-3)	Yes	Yes	
Music	MP3	.mp3	Audio) MPEG-1 Audio Layer-3 MPEG-2 Audio Layer-3 MPEG-2.5 Audio Layer-3	Yes	Yes	<b>&lt;USB&gt;</b> <b>Maximum number of files:</b> 2000 / folder <b>&lt;DMS&gt;</b> <b>Maximum number of files:</b> 2000 / folder *) Some files may not be played.
	MP4	.mp4 .m4a	Audio) AAC	Yes	No	
			Audio) HE AAC	Yes	No	
	WMA	.wma	Audio) WMA	Yes	No	
	L-PCM		Audio) L-PCM	No	Yes	

### 3D Support Format (HDMI)

Resolution	Aspect ratio	V.Frequency	H.Frequency	Pixel Clock Frequency	3D Structure
720 × 480p	16:9	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz	Side by Side (Full)
					Side by Side (Half)
					Top and Bottom
720 × 576p	16:9	50.000Hz	31.250kHz	27.000MHz	Side by Side (Full)
					Side by Side (Half)
					Top and Bottom
1280 × 720p	16:9	59.940/60.000Hz	90.0/89.91kHz	148.352/148.500MHz	Frame Packing
			44.955/45.000kHz	74.176/74.250MHz	Side by Side (Half)
		50.000Hz	75.000kHz	148.500MHz	Top and Bottom
					Frame Packing
			37.500kHz	74.250MHz	Side by Side (Half)
					Top and Bottom
1920 × 1080i	16:9	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz	Side by Side (Half)
					Top and Bottom
		50.000Hz	28.125kHz	74.250MHz	Side by Side (Half)
					Top and Bottom
1920 × 1080p	16:9	24.000Hz	54.000kHz	148.500MHz	Frame Packing
			27.000kHz	74.250MHz	Side by Side (Half)
		30.000Hz	67.433/67.500kHz	148.352/148.500MHz	Top and Bottom
					Frame Packing
		50.000Hz	33.716/33.750kHz	74.176/74.250MHz	Side by Side (Half)
					Top and Bottom
		50.000Hz	56.250kHz	148.500MHz	Side by Side (Half)
					Top and Bottom
		59.940/60.000Hz	67.433/67.500kHz	148.352/148.500MHz	Side by Side (Half)
					Top and Bottom

3D Support Format (DTV)

Video Format	Aspect ratio	V.Frequency	3D Structure
480i, 480p	16:9	59.940/60.000Hz	Side by Side (Half)
			Top and Bottom
576i, 576p	16:9	50.000Hz	Side by Side (Half)
			Top and Bottom
720p	16:9	59.940/60.000Hz	Side by Side (Half)
			Top and Bottom
		50.000Hz	Side by Side (Half)
			Top and Bottom
1080i	16:9	59.940/60.000Hz	Side by Side (Half)
			Top and Bottom
		50.000Hz	Side by Side (Half)
			Top and Bottom
1080p	16:9	24.000Hz	Side by Side (Half)
			Top and Bottom
		30.000Hz	Side by Side (Half)
			Top and Bottom
		50.000Hz	Side by Side (Half)
			Top and Bottom
		59.940/60.000Hz	Side by Side (Half)
			Top and Bottom

\* Side by Side (Full) is composed of left and right stereoscopic pictures that each size is equal to 2D.

Side by Side (Full)



2D Video

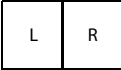


3D Video

Side by Side (Half)



2D Video



3D Video

Specifications and accessories

Receiving systems

DVB-T Broadcast systems/channels		Broadcast systems/channels	
UK	UHF 21-68	PAL-I	UHF UK21-UK69
France	VHF 05-10 (VHF 01-05) UHF 21-69	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
Germany	VHF 05-12 UHF 21-69	SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
Austria	VHF 05-12 UHF 21-69	SECAM-D/K	UHF R21-R69 VHF R1-R12
Switzerland	VHF 05-12 UHF 21-69		
Italy	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69		
Spain	UHF 21-69		
Nederlands	VHF 05-12 UHF 21-69		
Greece	VHF 05-12 UHF 21-69		

DVB-C Broadcast systems

DVB-S/DVB-S2 Broadcast systems

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT 1	Input/Output	21-pin SCART	RGB, A/V input AV out, TV out
EXT 2	Input	3.5mm mini jack	Y, P <sub>B</sub> /C <sub>B</sub> , P <sub>R</sub> /C <sub>R</sub>
EXT 3	Input	3.5mm mini jack	Video Audio L + R (shared with EXT 2)
HDMI 1/2/3/4	Input	HDMI* compliant HDCP compliant (Enable Content Type, INSTAPORT™, RGB Range, supported) HDMI 4 is compatible with MHL 1	
PC	Input	Analog RGB	
PC/HDMI 3	Audio input	3.5mm mini jack	Audio
Digital Audio Output (S/PDIF)	Optical		
LAN port		RJ-45	
USB 1/USB 2 port		Media Player Interface version: USB 2.0 USB class: Mass Storage File system: FAT16 and FAT32	
USB 2 port		USB HDD connection compatible	
Headphone socket		3.5mm stereo	
Stereo		A2, Nicam 2 carrier system	
Visible Screen Size (approx.)		139cm	
Display		16:9	
Sound output (at 10% distortion)	Main:	10W + 10W	
	Woofer:	10W	

Power consumption 297W  
(approx.)

Standby power consumption 0.2W  
(approx.)

On-mode power consumption\* (approx.) 236W

Average annual energy consumption\*\* (approx.) 344.6kWh/y

\* Tested in accordance with IEC 62087-BD Ed. 2.0:2008.

\*\* Operating 4 hours a day and 365 days a year.

Dimensions 83cm (H) 125cm (W) 36cm (D)  
(approx.)  
(Height dimension includes foot stand)

Weight (approx.) 30.5kg

Operating condition Temperature 5°C - 35°C (41°F - 94°F)  
Humidity 20 - 80% (non-condensing)

Wireless connection

- Standard: IEEE 802.11a/b/g/n
- Frequency Range: 5.15-5.35 GHz, 5.47-5.725 GHz, 5.725-5.850 GHz, 2.400-2.4835 GHz
- Security: WEP64/128, TKIP, AES, WPA/WPA2-PSK, WPS, None

Supplied accessories

- Remote control CT-90394  
2 batteries (AAA, IEC R03 1.5V)
- SCART Adaptor cable
- Component Adaptor cable
- AV Adaptor cable
- AV-SCART Adaptor cable
- RGB/PC-D-sub15pin(mini) Adaptor cables(w/audio)
- 'P' Clip/Screw (for TV mounting)  
See page 6.
- Cleaning cloth
- Two cable clamps

Optional accessories

- USB HDD  
For available USB HDD, see "Support Information" on the website.

Specification is subject to change without notice.



**> SUPPORT**

 **PLEASE VISIT:**  
**[WWW.TOSHIBA.CO.UK/TV-DVD-SUPPORT](http://WWW.TOSHIBA.CO.UK/TV-DVD-SUPPORT)**

 **OR CONTACT THE TOSHIBA CUSTOMER  
HELPLINE ON 0844 856 0730**

Register your TV online at  
[www.toshiba.co.uk/registration](http://www.toshiba.co.uk/registration)

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